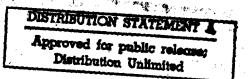
CONTRACT NUMBER DAMD17-92-C-2028

Analysis of Investigational Drugs in Biological Fluids -Method Development and Routine assay

FINAL REPORT - APPENDIX B for the Period January 15, 1992 - January 14, 1996

Principal Investigator: Dr. Emil T. Lin University of California, San Francisco



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PRINCIPAL INVESTIGATOR: Emil T. Lin, Ph.D.

CONTRACTING ORGANIZATION:

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APPENDIX B

Routine Assay Data

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Halofantrine in Plasma

Subject 1 W	'R 171,669 Ha	alofantrine	Subject 2 W	Subject 2 WR 171,669 Halofantrine					
Scheduled	Treat A	Treat B	Scheduled	Treat A	Treat B				
Time	Conc.	Conc.	Time	Conc.	Conc.				
(hrs.)	(ng/ml)	(ng/ml)	(hrs.)	(ng/ml)	(ng/ml)				
0.00	32.3	*	0.00	44.0	*				
0.50	33.8	5.40	0.50	46.7	*				
1.00	33.4	72. 5	1.00	87 .8	2.47				
2.00	34.3	497.	2.00	262.	519.				
3.00	55.1	801.	3.00	28 8.	1760.				
4.00	61.0	1160.	4.00	261.	3560.				
5.00	61.9	419.	5.00	260.	2780.				
6.00	75. 9	671.	6.00	24 0.	2070.				
6.50	78. 3	1150.	6.50	220.	2060.				
7.00	106.	1270.	7.00	24 1.	1650.				
8.00	146.	2020.	8.00	2 91.	2330.				
9.00	00 146. 2020. 00 208. 1960. 00 245. 1470. 00 250. 1480. 00 229. 1490. 50 234. 1660. 00 241. 1530. 00 347. 1720.		9.00	37 0.	2900.				
10.00	24 5.	1 47 0.	10.00	4 19.	2980.				
11.00	250.	1480.	11.00	404.	2 840.				
12.00	229.	1490.	12.00	406.	3070.				
12.50	234.	1660 .	12.50	348.	2670.				
13.00	241.	1530.	13.00	354.	2350.				
14.00	347.	172 0.	14.00	407.	2320.				
15.00	369.	1720.	15.00	389.	3050.				
16.00	374.	1560.	16.00	384.	2990.				
20.00	497.	8 54.	20.00	47 9.	1820.				
24.00	260.	637.	24.00	358.	1580.				
48.00	164.	24 8.	48.00	251.	689.				
72.00	160.	537.	72.00	20 0.	602.				
120.00	182.	2 59.	120.00	188.	578.				
144.00	174.	257.	144.00	199.	644.				
148.00	386.	<i>7</i> 33.	148.00	4 05.	244 0.				
152.00	386.	644.	152.00	351.	1630.				
156.00	266.	4 56.	156.00	321.	1320.				
168.00	168.	258.	168.00	187.	612.				
172.00	145.	251.	172.00	220.	616.				
176.00	157.	255.	176.00	248.	651.				
192.00	118.	230.	192.00	149.	411.				
219.00	83.1	98.8	219.00	112.	301.				
267.00	65.2	86.2	267.00	81.3					
363.00	50.8	64.3	363.00	30.8	88.4.				
435.00	49.0	67.3	435.00	25.8	63.7				
507.00	44.3	61.0	507.00	24.5	70.9				

Halofantrine in Plasma

Subject 3 W	⁷ R 171,669 Ha	lofantrine	Subject 4 W	R 171,669 Ha	lofantrine		
Scheduled	Treat A	Treat B	Scheduled	Treat A	Treat B		
Time	Conc.	Conc.	Time	Conc.	Conc.		
(hrs.)	(ng/ml)	(ng/ml)	(hrs.)	(ng/ml)	(ng/ml)		
0.00	*	6.72	0.00	*	NS		
0.50	8.40	8.47	0. 50	*	NS		
1.00	42.8	48.5	1.00	7.32	NS		
2.00	84.4	54 3.	2.00	66.2	NS		
3.00	103.	1920.	3.00	118.	NS		
4.00	107.	2350.	4.00	133.	NS		
5.00	82. 9	27 00.	5.00	106.	NS		
6.00	81.5	20 60.	6.00	101.	NS		
6.50	83.4	30 40.	6.50	92 .6	NS		
7.00	83.7	3330.	7. 00	103.	NS		
8.00	92.1	4 7 50.	8.00	101.	NS		
9.00	11 <i>7</i> .	467 0.	9.00	131.	NS		
10.00	130.	4680.	10.00	22 5.	NS		
11.00	130.	3120.	11.00	332.	NS		
12.00	11 <i>7</i> .	22 10.	12.00	355.	NS		
12.50	132.	2620.	12.50	396.	NS		
13.00	128.	22 30.	13.00	549.	NS		
14.00	139.	2610.	14.00	807.	NS		
15.00	126.	3310.	15.00	7 00.	NS		
16.00	285.	3550.	16.00	668.	NS		
20.00	1 77 .	27 80.	20.00	686.	NS		
24.00	134.	1580.	24.00	42 3.	NS		
48.00	187.	525.	48.00	322.	NS		
72. 00	143.	4 59.	72. 00	157.	NS		
120.00	92.4	444.	120.00	139.	NS		
144.00	71. 1	435.	144.00	151.	NS		
148.00	188.	22 90.	148.00	385.	NS		
152.00	208.	1300.	152.00	39 8.	NS		
156.00	211.	1210.	156.00	35 9.	NS		
168.00	94.9	430.	168.00	141.	NS		
172.00	110.	419.	172.00	144.	NS		
176.00	BC	752.	176.00	161.	NS		
192.00	52.4	24 0.	192.00	86.7	NS		
219.00	38.9	164.	219.00	61.3	NS		
267.00	18.5	107.	267.00	33.2	NS		
363.00	12.8	7 3.0	363.00	NS	NS		
435.00	11.5	60.2	435.00	NS	NS		
507.00	14.4	48.2	507.00	NS	NS		

^{* =} Below assay sensitivity; NS = No sample; BC = Unacceptable chromatogram, insufficient sample to repeat.

Halofantrine in Plasma

Subject 5 W	R 171,669 Ha	lofantrine_	Subject 6 W	Subject 6 WR 171,669 Halofantrine						
Scheduled	Treat A	Treat B	Scheduled	Treat A	Treat B					
Time	Conc.	Conc.	Time	Conc.	Conc.					
(hrs.)	(ng/ml)	(ng/ml)	(hrs.)	(ng/ml)	(ng/ml)					
0.00	*	29.1	0.00	40.8	*					
0.50	*	28.2	0.50	4 8.7	*					
1.00	8.48	58.6	1.00	73. 4	20.9					
2.00	102.	721 .	2.00	643.	1230.					
3.00	164.	1020.	3.00	858.	22 90.					
4.00	242.	167 0.	4.00	1080.	22 80.					
5.00	236.	1 0 50.	5.00	833.	1740.					
6.00	194.	829.	6.00	506.	1570.					
6.50	241.	590.	6.50	831.	2090.					
7.00	210.	50 8.	7.00	866.	24 00.					
8.00	24 6.	<i>7</i> 97.	8.00	962.	3950.					
9.00	268.	1370.	9.00	7 59.	2 860.					
10.00	285.	1 7 10.	10.00	877.	2340.					
11.00	28 9.	2110.	11.00	977.	2 180.					
12.00	313.	1800.	12.00	<i>7</i> 78.	2140.					
12.50	303.	1660.	12. 50	7 59.	20 30.					
13.00	292.	1850.	13.00	907.	2 150.					
14.00	348.	122 0.	14.00	833.	3680.					
15.00	667.	1380.	15.00	12 00.	292 0.					
16.00	1190.	1490.	16.00	1 74 0.	2590 .					
20.00	1610.	2260.	20.00	1910.	1520.					
24.00	<i>7</i> 59.	1160.	24.00	1180.	985.					
48.00	452.	516.	48.00	387.	393.					
72. 00	32 9.	444.	72.00	241.	417.					
120.00	301.	45 6.	120.00	251.	410.					
144.00	247.	558.	144.00	211.	467.					
148.00	577.	1700.	148.00	257.	2470.					
152.00	935.	397.	152.00	332.	1410.					
156.00	638.	808.	156.00	320.	1340.					
168.00	325.	462.	168.00	163.	473.					
172.00	308.	506.	172.00	273.	470.					
176.00	296.	436.	176.00	253.	541.					
192.00	211.	344.	192.00	147.	315.					
219.00	161.	261.	219.00	126.	253.					
267.00	94.1	114.	267.00	110.	163.					
363.00	56.3	84.6	363.00 435.00	46.4 36.2	106. 91.9					
435.00	42.6	89.5	435.00	36.2 37.2						
507.00	58.9	92.2	507.00	37.2	103.					

Halofantrine in Plasma

Subject 7 W	['] R 171,669 Ha	alofantrine	_Subject 8 W	R 1 71, 669 Ha	lofantrine
Scheduled	Treat A	Treat B	Scheduled	Treat A	Treat B
Time	Conc.	Conc.	Time	Conc.	Conc.
(hrs.)	(ng/ml)	(ng/ml)	(hrs.)	(ng/ml)	(ng/ml)
0.00	*	15.0	0.00	*	8.82
0.50	3.90	44.9	0.50	*	9.76
1.00	16.7	400.	1.00	1.65	19.5
2.00	58.9	1220.	2.00	9.91	414.
3.00	70.9	1420.	3.00	2 5.9	1510.
4.00	105.	1340.	4.00	53.0	2090.
5.00	91.8	962.	5.00	57.1	2740.
6.00	98.4	847.	6.00	7 0.0	1390.
6.50	81.5	836.	6.50	80.7	1840.
7.00	116.	1510.	7.00	206.	1860.
8.00	139.	2570.	8.00	7 8.1	1280.
9.00	146.	1860.	9.00	84.2	1 7 90.
10.00	169.	1830.	10.00	98.9	237 0.
11.00	170.	127 0.	11.00	104.	2 150.
12.00	168.	1230.	12.00	80.3	1550.
12.50	167.	1100.	12.50	127.	2 150.
13.00	141.	120 0.	13.00	121.	2 350.
14.00	153.	1570.	14.00	89.6	1530.
15.00	178.	20 50.	15.00	116.	1730.
16.00	193.	234 0.	16.00	8 5.8	1970.
20.00	197.	1360.	20.00	<i>7</i> 30.	1510.
24 .00	176.	823.	24.00	605.	887.
48.00	169.	393.	48.00	224.	416.
72. 00	120.	314.	72. 00	68 .6	341.
120.00	192.	316.	120.00	90.8	339.
144.00	169.	387.	144.00	88.9	337.
148.00	2 69.	1110.	148.00	152.	1630.
152.00	394.	1440.	152.00	216.	<i>7</i> 91.
156.00	361.	1030.	156.00	190.	726.
168.00	139.	324.	168.00	89.4	316.
172.00	167.	445.	172.00	91.9	353.
176.00	154.	371.	176.00	89.7	321.
192.00	7 9.5	236.	192.00	65.4	215.
219.00	44.6	120.	219.00	47.6	162.
267.00	31.5	121.	267.00	27.7	89.9
363.00	19.1	47. 0	363.00	16.2	62.4
435.00	19.5	40.9	435.00	19.0	63.7
507.00	15.5	NS	507.00	15.9	58.5

Halofantrine in Plasma

Subject 9 vv	K 1/1,009 F1	aiorantrine
Scheduled	Treat A	Treat B
Time	Conc.	Conc.
(hrs.)	(ng/ml)	(ng/ml)
0.00	30.6	*
0.50	41.1	12.8
1.00	96.4	20 5.
2.00	134.	1580.
3.00	181.	1 24 0.
4.00	156.	858.
5.00	155.	637.
6.00	167.	832.
6.50	143.	1000.
7. 00	157.	813.
8.00	194.	1180.
9.00	243.	1430.
10.00	276.	1080.
11.00	203.	1500.
12.00	191.	1520.
12.5 0	201.	1300.
13.00	203.	1250.
14.00	193.	1140.
15.00	194.	2490.
16.00	<i>17</i> 0.	2460.
20.00	2 65.	880.
24.00	<i>27</i> 0.	564.
48.00	3 7 0.	360.
72. 00	358.	360.
120.00	235.	395.
144.00	340.	95 3.
148.00	350.	2630.
152.00	502.	1520.
156.00	492.	1380.
168.00	236.	382.
172.00	188.	357.
176.00	219.	408.
192.00	141.	307.
219.00	94.2	250.
267.00	99.4	171.
363.00	41.8	52.8
435.00	39.6	38.5
507.00	38.8	2 9.0

^{* =} Below assay sensitivity; NS = No sample; BC = Unacceptable chromatogram, insufficient sample to repeat.

Halofantrine in Plasma

Subject 1 WR 178,460 Subject 2 WR 178,460 Scheduled Treat A Treat B Scheduled Treat A Treat B Time Conc. Conc. Time Conc. Conc. (ng/ml) (hrs.) (ng/ml) (ng/ml) (hrs.) (ng/ml) 26.9 0.00 17.8 0.00 0.50 0.50 24.6 17.1 21.3 23.3 1.00 2.00 1.00 43.4 2.00 22.6 13.7 2.00 6.59 3.00 26.8 27.2 3.00 50.5 27.4 31.5 34.4 65.1 50.1 4.00 4.00 **7**5.4 5.00 33.2 21.1 5.00 57.6 **82.8** 6.00 40.7 25.4 6.00 71.3 6.50 36.9 76.3 6.50 73.1 94.5 **95.**3 7.00 48.0 82.8 7.00 117. 54.9 84.3 8.00 96.6 139. 8.00 9.00 63.4 122. 9.00 129. 193. 10.00 69.9 121. 10.00 141. 212. 225. 82.2 138. 133. 11.00 11.00 233. 85.9 429. 12.00 147. 12.00 **129**. 214. 12.50 85.2 149. 12.50 13.00 86.4 158. 13.00 **136**. 221. 283. 14.00 97.1 196. 14.00 136. 98.0 208. 147. 319. 15.00 15.00 153. 326. 16.00 108. 227. 16.00 397. 20.00 158. 212. 20.00 204. 181. 24.00 203. 491. 24.00 166. 286. 521. 48.00 180. 238. 48.00 72.00 169. 216. 72.00 314. 596. 198. 359. 676. 120.00 287. 120.00 679. 226. 310. 390. 144.00 144.00 148.00 262. 311. 148.00 **451**. 544. 152.00 264. 372. 152.00 **493**. 751. 716. 156.00 252. 386. 156.00 **46**6. 295. 721. 168.00 268. 168.00 **413**. **45**9. 715. 172.00 250. 324. 172.00 176.00 266. 297. 176.00 411. 642. 242. 311. 192.00 376. 614. 192.00 342. 225. 219.00 162. 259. 219.00 227. 1*7*5. 113. 267.00 267.00 216. 57.3 363.00 106. 152. 363.00 **82.3** 435.00 71.9 113. 435.00 52.4 44.1 40.8 65.4 88.4 507.00 34.6 507.00

Halofantrine in Plasma

Subject 3 WR 178,460	Subject 4 WR 178,460

Subject 3 WR 178,460				Subje	ect 4 WR 178,	.460				
Scheduled	Treat A	Treat B		Scheduled	Treat A	Treat B				
Time	Conc.	Conc.		Time	Conc.	Conc.				
(hrs.)	(ng/ml)	(ng/ml)		(hrs.)	(ng/ml)	(ng/ml)				
0.00	*	6.68		0.00	*	NS				
0.50	*	5.55		0.50	*	NS				
1.00	3.55	7.0 5		1.00	*	NS				
2.00	13.7	16.8		2.00	*	NS				
3.00	25.2	36.1		3.00	2 5.3	NS				
4.00	34.4	62.1		4.00	3 5.2	NS				
5.00	35.8	80.3		5.00	3 6.5	NS				
6.00	43.9	97.1		6.00	4 3.6	NS				
6.50	60.3	119.		6.50	4 6.4	NS				
7.00	37.0	144 .		7. 00	40 .3	NS				
8.00	51.7	174.		8.00	4 7.2	NS				
9.00	56.9	2 15.		9.00	5 8.5	NS				
10.00	71.4	244 .		10.00	7 6.3	NS				
11.00	55.0	273.		11.00	104.	NS				
12.00	71.0	274.		12.00	122.	NS				
12.50	80.8	2 90.		12.50	21 5.	NS				
13.00	81.6	319.		13.00	1 2 2.	NS				
14.00	86.3	3 36.		14.00	15 1.	NS				
15.00	85.6	356.		15.00	150.	NS				
16.00	87.0	378.		16.00	154.	NS				
20.00	119.	4 30.		20.00	1 7 8.	NS				
24.00	118.	500.		24.00	18 3.	NS				
48.00	224.	557.		48.00	31 3.	NS				
72. 00	296.	654.		72. 00	31 3.	NS				
120.00	262.	674.		120.00	29 0.	NS				
144.00	269.	7 96.		144.00	32 8.	NS				
148.00	288.	900.		148.00	4 16.	NS				
152.00	381.	986.		152.00	40 1.	NS				
156.00	328.	896.		156.00	36 6.	NS				
168.00	286.	862.		168.00	367.	NS				
172.00	368.	854.		1 72. 00	402.	NS				
176.00	308.	936.		176.00	35 8.	NS				
192.00	253.	725.		192.00	29 8.	NS				
219.00	230.	621.		219.00	26 8.	NS				
267.00	160.	357.		267.00	156.	NS				
363.00	73. 0	163.		363.00	NS	NS				
435.00	51.9	117.		435.00	NS	NS				
507.00	33.3	101.		507.00	NS	NS				

^{* =} Below assay sensitivity; NS = No sample; BC = Unacceptable chromatogram, insufficient sample to repeat.

Halofantrine in Plasma

Subject 5 WR 178,460 Subject 6 WR 178,460 Scheduled Treat A Treat B Scheduled Treat A Treat B Time Conc. Conc. Conc. Time Conc. (hrs.) (ng/ml) (ng/ml) (hrs.) (ng/ml) (ng/ml)16.9 0.00 19.5 0.00* 0.50 0.50 22.1 16.6 22.7 * 18.3 1.00 1.00 2.00 33.2 2.00 49.8 17.0 3.00 11.5 52.9 3.00 73.3 56.5 21.1 79.3 4.00 4.00 88.3 80.9 5.00 31.3 84.7 5.00 87.1 92.9 6.00 38.6 121. 6.00 82.2 112. 6.50 55.7 123. 6.50 137. 129. 7.00 55.5 117. 7.00 178. 158. 58.3 139. 8.00 195. 217. 8.00 9.00 58.3 182. 9.00 197. 234. 10.00 101. 171. 10.00 246. 253. 117. 233. 229. 263. 11.00 11.00 222. 216. 283. 12.00 135. 12.00 208. 140. 246. 12.50 283. 12.50 13.00 135. 258. 13.00 216. **2**90. **22**9. 134. 285. 14.00 144. 14.00 128. 182. 277. 15.00 359. 15.00 297. 16.00 250. 363. 16.00 172. 381. 20.00 299. 350. 20.00 387. 436. 389. 24.00 792. 535. 24.00 589. 48.00 521. 350. 48.00 402. 72.00 488. 733. 72.00 469. 452. **7**39. 566. 441. 120.00 486. 120.00 **47**4. 475. 769. 144.00 452. 144.00 922. 525. 148.00 494. 148.00 **464**. 152.00 608. 368. 152.00 480. 533. 156.00 556. 851. 156.00 505. 626. 354. 534. **7**49. 168.00 568. 168.00 548. 883. 172.00 449. 537. 172.00 496. 176.00 541. 792. 176.00 428. **7**91. 327. 457. 192.00 462. 192.00 635. 219.00 315. 368. 219.00 440. 263. 311. 350. 538. 267.00 267.00 363.00 116. 137. 363.00 65.4 151. 53.9 435.00 88.8 96.4 435.00 106. 36.1 73.0 72.2 78.4 507.00 507.00

Halofantrine in Plasma

Subject 7 WR 178,460 Subject 8 WR 178,460 Scheduled Treat A Treat B Scheduled Treat A Treat B Time Conc. Conc. Time Conc. Conc. (hrs.) (ng/ml) (ng/ml) (hrs.) (ng/ml) (ng/ml)0.00 10.5 0.00 5.65 * 0.50 * 10.2 0.50 6.03 1.00 23.8 1.00 9.38 2.00 6.57 59.6 2.00 14.9 3.00 17.2 105. 3.00 39.9 4.00 25.1 114. 4.00 12.6 65.4 5.00 29.0 120. 5.00 18.8 98.4 34.8 6.00 151. 6.00 22.4 98.3 6.50 38.3 162. 6.50 29.6 110. 7.00 43.5 182. 7.00 280. 118. 8.00 52.4 239. 8.00 38.6 153. 9.00 62.6 252. 9.00 46.8 180. 10.00 72.3 252. 10.00 52.3 224. 11.00 77.9 235. 11.00 70.4 220. 12.00 87.8 226. 12.00 66.3 246. 12.50 92.8 250. 12.50 61.1 228. 93.1 13.00 253. 13.00 71.9 255. 14.00 112. 259. 14.00 71.4 292. 15.00 107. 299. 15.00 79.9 341. 16.00 130. 301. 16.00 72.3 320. 20.00 161. 282. 20.00 126. 347. 24.00 146. 344. 24.00 132. 430. 48.00 175. 446. 48.00 225. 598. 72.00 217. 465. 72.00 234. 549. 120.00 283. 506. 120.00 322. 596. 144.00 318. 635. 144.00 307. 620. 148.00 365. 572. 148.00 342. 737. 152.00 472. 705. 152.00 415. 700. 156.00 480. 668. 156.00 359. 673. 168.00 390. 202. 168.00 378. 620. 172.00 459. 280. 380. 172.00 677. 176.00 432. 230. 176.00 349. 638. 192.00 317. 149. 192.00 286. 539. 306. 219.00 80.4 219.00 259. 562. 267.00 217. 81.0 267.00 193. 424. 363.00 106. 29.6 363.00 113. 167. 435.00 66.5 25.7 435.00 75.5 143. 507.00 50.8 NS 507.00 60.1 138.

Halofantrine in Plasma

Subject 9 WR 178,460

ect 9 VVIX 176	7,400
Treat A	Treat B
Conc.	Conc.
(ng/ml)	(ng/ml)
44.5	*
44.0	*
52.8	5.52
59.1	31.0
	46 .8
7 0.6	66.0
93.7	70.8
105.	7 3.3
98.5	97.7
92.7	84.0
BC	108.
117.	139.
131.	148.
140.	183.
144.	202.
	202.
138.	224.
146.	2 39.
142.	330.
146.	324.
196.	308.
187.	366.
281.	4 60.
	500.
	605.
	607.
	7 39.
	<i>7</i> 05.
	807.
	638.
	674.
	636.
	572.
	521.
	456.
	189.
	121.
94.9	107.
	Treat A Conc. (ng/ml) 44.5 44.0 52.8 59.1 58.1 70.6 93.7 105. 98.5 92.7 BC 117. 131. 140. 144. 108. 138. 146. 142. 146. 196. 187.

^{* =} Below assay sensitivity; NS = No sample; BC = Unacceptable chromatogram, insufficient sample to repeat.

ANALYTICAL DATA Analysis Report WR5/P 93-5 WR 238,605 Free Base in Rat Plasma

0 mg/kg/day

Concentration (ng/ml)

Sample Identification

803-13

804-13 805-13

813-13

817-13

808-13

812-13

819-13

818-13

0 mg/kg/day

'day
m kg/
/gu
0.5

						,															
Concentration	(lm/gu)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sample	Identification	801-27	802-27	806-27	807-27	809-27	810-27	811-27	814-27	815-27	816-27	823-27	824-27	827-27	830-27	831-27	834-27	835-27	836-27	837-27	840-27

1.68

822-13

825-13 826-13 828-13 829-13 832-13

821-13

820-13

Sample Identification 841-13 842-13 843-13	Concentration (ng/ml) 17.2 28.2 25.4 20.4
847-13 849-13 854-13	23.9
855-13 856-13 857-13 862-13	34.3 32.7 26.4 25.6
865-13 865-13 866-13 869-13	27.1 25.9 45.1 45.3
870-13 872-13 875-13 876-13	26.3 42.7 37.6 28.3 56.1

In the sample identification number, the 13 and 27 after the sample number refers to blood drawn at 13 and 27 weeks, respectively. * = Below Assay Sensitivity

2.33

838-13

839-13

WR 238,605 Free Base in Rat Plasma Analysis Report WR5/P 93-5 ANALYTICAL DATA

6.0 mg/kg/day

0.5 mg/kg/day

Identification Sample

844-27

846-27

848-27 850-27 851-27

'day
$^{ m kg}$
/gm
6.0

Concentration	(lm/gu)	303	624	439	466	328	268	326	609	460	237	557	518	459	639	269	661	555	422	537	662
Sample	Identification	881-13	882-13	883-13	885-13	886-13	888-13	891-13	892-13	894-13	898-13	903-13	905-13	906-13	907-13	910-13	911-13	913-13	914-13	917-13	920-13
Concentration	(ng/ml)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

852-27 853-27

858-27 859-27

861-27 864-27 867-27

860-27

871-27 873-27

868-27

874-27 877-27 879-27 880-27

Concentration (ng/ml)) *	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sample Identification	884-27	887-27	889-27	890-27	893-27	895-27	896-27	897-27	899-27	900-27	901-27	902-27	904-27	908-27	909-27	912-27	915-27	916-27	918-27	919-27

In the sample identification number, the 13 and 27 after the sample number refers to blood drawn at 13 and 27 weeks, respectively. * = Below Assay Sensitivity

ANALYTICAL DATA Analysis Report WR5/P 93-5 WR 238,605 Free Base in Rat Plasma

18 mg/kg/day

18 mg/kg/day

					-	.											
Concentration	(lm/gu)	1700	1940	1260	1470	1910	1470	1850	1950	1600	2580	1140	1330	1550	2140	1660	*
Sample	Identification	924-13	925-13	928-13	931-13	938-13	943-13	945-13	946-13	947-13	948-13	950-13	951-13	952-13	955-13	958-13	922-27

Concentration	(lm/gu)	*	*	*	*	*	*	2.06	1.18	*	*	1.15	*	1.67	*
Sample	Identification	932-27	933-27	935-27	939-27	940-27	941-27	942-27	944-27	949-27	953-27	954-27	957-27	959-27	960-27

In the sample identification number, the 13 and 27 after the sample number refers to blood drawn at 13 and 27 weeks, respectively. * = Below Assay Sensitivity

927-27

923-27

929-27

ANALYTICAL RESULTS Primaquine Free Base and its Carboxy Metabolite in Human Serum Pri/P 93-6

Clinical Sample Date: Week 6

Sample ID	Primaquine Free Base (ng/ml)	Carboxy Metabolite (ng/ml)
93A-003	*	315
93A-010	*	42 0
93A-017	*	946
93A-023	*	571
93A-024	*	241
93A-032	*	431
93A-041	*	377
93A-043	*	327
93A-051	*	543
93A-057	*	587
93A-064	*	51.2
93A-069	NS	NS
93A-074	*	49 0
93A-083	*	1100
93A-092	47 .9	224
93A-102	*	62.4
93A-117	*	638
93A-1 2 3	*	535
93A-126	*	492
93A-132	*	388
93A-145	40.4	1180
93A-156	53.4	691
93A-162	*	652
93A-168	*	215
93A-177	*	1180
93A-189	*	44 6
93A-196	*	307
93A-205	*	494
93A-208	*	580
93A-213	46.6	7 56
93A-218	*	501
93A-221	*	323

^{*} = below assay sensitivity; NS = no sample.

ANALYTICAL RESULTS Primaquine Free Base and its Carboxy Metabolite in Human Serum Pri/P 93-6

Clinical Sample Date: Week 11

Sample ID	Primaquine free base (ng/ml)	Carboxy Metabolite (ng/ml)
93A-003	*	356
93A-010	*	*
93A-017	*	693
93A-023	*	570
93A-024	*	138
93A-032	*	452
93A-041	. *	373
93A-043	*	250
93A-051	*	434
93A-057	*	312
93A-064	42. 5	*
93A-069	NS	NS
93A-074	*	555
93A-083	*	59.5
93A-092	*	254
93A-102	*	296
93A-117	*	481
93A-123	*	54.6
93A-126	37.3	1130
93A-132	*	402
93A-145	4 5.5	804
93A-156	40.2	752
93A-162	29.5	93.0
93A-168	*	377
93A-177	*	793
93A-189	NS	NS
93A-196	*	235
93A-205	*	561
93A-208	NS	NS
93A-213	*	*
93A-218	*	501
93A -22 1	170	328

^{* =} below assay sensitivity; NS = no sample.

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

]сг-наг	(m/gn))	CONC	*	27.6	15.3	8.60	5.07	2.54	1.40	1.06	0.841	0.802	0.807	0.757				
	4	Time	Period	P0	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
	CL-HAL	(lm/gn)	CONC	*	23.0	13.7	79.7	5.44	4.14	1.82	1.19	0.947	0.862	0.740	0.601				
	3	Time	Period	Po	P1	P2	Рз	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
	CL-HAL	(lm/gn)	CONC	*	39.9	39.0	37.7	35.9	36.1	34.9	35.3	31.7	32.8	31.9	27.9				
	2	Time	Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
	CL-HAL	(lm/gnl)	CONC	*	20.3	NS	6.94	4.00	2.00	1.07	0.735	0.595	0.424	0.316	0.361				
SUBJ#	1	Time	Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

CL-HAL	(µg/ml) CONC	*	22.3	14.4	8.06	4.35	3.01	1.76	0.870	0.392	0.251	0.155	0.135	0.119	0.113	0.106	0.137
8	Time Period	PO	P1	P2	P3	P4	P5	9d	P7	P8	6d	P10	P11	P12	P13	P14	P15
CL-HAL	(μg/ml) CONC	*	17.7	88.6	5.15	2.17	1.1	0.229	0.0849	0.0303	0.0308	0.0683	0.0129				
	Time Period	PO	P1	P2	53	P4	P5	90	P.7	80	P9	210	P11	512	P13	P14	P15
CL-HAL	(µg/m1) CONC		18.7		6.59	3.72	2.20		969.0		0.545	0.342	0.340				
CI.	Time Period	0		2	3	4	5	9		8	6	P10	11	P12	P13	P14	P15
و	L	Po	P 1	P2	P3	P4	P5	P6	P7	P8	Pg		<u> a</u>		<u> a.</u>		افا
CL-HAL	(µg/ml) CONC	*	28.3	21.9	11.7	6.92	5.45	1.85	1.18	0.975	0.757	0.785	0.729				
5	Time	Po	P1	P2	Рз	P4	P5	P6	P7	P8	Pg	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

CL-HAL	(lm/gn)	CONC	*	20.6	12.5	60:9	3.23	1.82	0.928	0.754	0.621	0.650	0.574	0.534				
12	Time	Period	P0	P1	P2	РЗ	P4	P5	P6	2d	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(lm/gnl)	CONC	*	25.9	15.9	7.24	3.64	1.92	868.0	0.528	0.301	0.579	0.545	0.295	0.545	0.562	0.247	0.561
11	Time	Period	P0	P1	P2	P3	P4	P5	P6	Ь7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(lm/gn)	CONC	*	23.6	16.5	9.85	5.43	2.45	0.728	0.522	0.243	0.159	0.217	0.155				
10	Time	Period	РО	P1	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(lm/gn)	CONC	*	20.6	12.0	4.15	1.68	0.688	0.158	0.0708	0.0668	0.0653	0.0576	0.0624	0.0691	0.105	0.160	0.174
6	Time	Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

CL-HAL	(µg/m]) CONC	*	15.1	6.57	3.85	2.40	1.50	0.893	0.598	0.339	0.305	0.292	0.350	0.318	0.400	0.395	0.533
16	Time Period	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(µg/ml) CONC	*	24.2	14.9	8.58	5.17	3.02	1.24	0.783	0.534	0.557	0.444	0.594				
15	Time	PO	P1	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(µg/ml) CONC		23.1	12.3	5.88	3.57	2.03	1.13	1.43	0.632	0.528	0.418	0.174	0.615			
14 Cl	Time	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(µg/m]) CONC		28.6	15.7	8.03	4.54	2.87	1.41	1.13	T				T			
13 C	Time	P0	P1	P2	P3	P4	P5	P6	P7	D8	P.9	P10	p11	D12	D43	D14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

]сг-наг	(µg/ml) CONC	*	16.1	11.2	6.78	4.05	2.38	1.09	0.575	0.109	0.0687	0.0596	0.0709	0.126	0.161	0.214	0.196
20	Time Period	РО	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(µg/ml) CONC	*	12.1	6.20	3.32	1.90	1.36	0.958	0.630	0.625	0.619	0.575	0.675	0.553	0.647	0.614	0.608
19	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(µg/ml) CONC	*	28.6	18.5	10.2	6.43	3.91	2.18	1.91	1.05	0.913	0.814	0.808				
18	Time Period	Po	P1	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
					<u> </u>						T			<u> </u>	Γ		
CL-HAL	(µg/m]) CONC	*	12.6	4.94	1.90	1.21	0.802	0.581	0.0724	0.0643	0.0390	0.0613	0.0542	0.564	0.581	0.564	0.547
17	Time Period	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

]сг-нм	(µg/ml) CONC	*	30.2	19.2	13.1	6.83	4.74	3.13	1.67	1.40	0.792	0.789	0.808				
4	Time Period	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
СГ-НМ	(µg/ml) CONC	*	18.7	11.6	6.04	3.04	1.82	0.946	0.658	0.167	0.558	0.541	0.588				
3	Time Period	Po	D-	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HM	(µg/ml) CONC	*	33.6	24.4	13.7	9.04	5.92	2.85	1.58	1.08	0.776	0.641	0.635				
2	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Pg	P10	P11	P12	P13	P14	P15
CL-HM	(μg/ml) CONC	*	17.1	10.3	4.96	2.53	1.60	0.791	0.619	0.547	0.218	0.166	0.202				
	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	РЭ	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

]сг-нм	(µg/ml) CONC	*	49.4	28.4	15.1	9.05	6.35	3.37	2.46	2.03	1.91	1.74	1.70					
8	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Pg	P10	P11	P12	P13	P14	P15	
]сг-нм	(μg/ml) CONC	*	30.2	21.3	14.7	7.92	6.10	2.67	1.34	1.12	1.05	0.823	0.776					
7	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	
СГ-НМ	(µg/ml) CONC	*	32.6	21.7	12.8	7.52	4.47	2.10	1.44	1.09	0.899	0.887	0.729					
9	Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	
CL-HM	(µg/ml) CONC	*	29.8	17.4	29.6	6.27	3.87	1.89	1.35	0.976	0.746	0.670	0.670					
5	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	Da	6d	P10	P11	P12	P13	P14	P15	

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

]сг-нм	(µg/ml) CONC	*	41.4	28.6	15.8	9.28	6.10	2.88	1.66	1.09	0.921	0.891	0.978				
12	Time Period	Po	P1	P2	РЗ	P4	P5	P6	Р7	P8	P9	P10	P11	P12	P13	P14	P15
]CLHM	(µg/m]) CONC	*	19.8	14.6	8.73	5.55	3.68	1.69	1.08	0.737	0.630	0.598	0.577				
11	Time Period	Po	P1	P2	РЗ	P4	P5	P6	Р7	P8	Р9	P10	P11	P12	P13	P14	P15
СГ-НМ	(µg/ml) CONC	*	36.5	25.3	16.3	11.5	8.26	4.43	2.75	1.81	1.23	1.02	0.881				
10	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
	Γ	Τ	T		<u> </u>	Τ			<u> </u>	Ι .	<u> </u>	Γ		<u> </u>	<u> </u>		<u> </u>
CL-HM	(µg/ml) CONC	*	14.7	10.1	5.74	3.41	2.26	1.01	0.680	0.388	0.474	0.360	0.336				
6	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 Halofantrine as Free Base

		Γ															
]сг-нм	(µg/ml) CONC	*	23.6	11.7	4.90	2.82	1.87	1.08	0.951	0.637	0.599	0.623	0.744				
15	Time Period	PO	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
СГ-НМ	(µg/ml) CONC	*	39.7	17.9	9.74	6:39	4.62	2.53	1.97	1.61	1.38	1.35	1.46				
14	Time	Po	P1	P2	РЗ	P4	P5	P6	P7	Р8	Р9	P10	P11	P12	P13	P14	P15
		Т	I	Γ	 		Γ	Γ	Г	Γ	Γ		Γ	<u> </u>	Γ	T	Γ
CL-HM	(µg/ml) CONC	*	18.6	9.03	4.06	2.30	1.62	1.45	1.12	1.06	1.18	1.15	1.21				
13	Time Period	PO	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

]сг-наг	(ng/ml) CONC	*	131	8.66	82.1	84.7	108	133	150	184	205	214	242				
4	Time Period	P0	P1	P2	РЗ	P4	P5	P6	Р7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	156	115	6.68	181	176	174	163	186	NS(*ppt)	183	NS(*ppt)				
3	Time Period	P0	P1	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	255	221	234	272	186	283	185	246	182	176	190				
2	Time	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	131	NS	74.4	157	61.4	89.1	102	110	124	131	145				
SUBJ#	Time	PO	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

CL-HAL	(ng/ml) CONC	*	101	123	228	281	193	212	129	120	115	108	106	8.26	104	109	120
SUBJ#	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	842	737	631	432	254	103	57.9	9.06	35.8	44.9	42.0				
4	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	131	121	208	335	257	168	144	146	154	168	186				
9	Time Period	P0	P1	P2	Рз	P4	P5	P6	P7	P8	РЭ	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	NS(*ppt)	174	143	179	189	204	174	157	152	152	162				
5	Time Period	PO	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

CL-HAL	•	(lm/gu)	CONC	*	111	94.2	57.6	84.9	125	163	186	210	258	248	263				
12		Time	Period	P0	P1	Р2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL		(lm/gu)	CONC	*	137	109	129	186	246	216	199	200	195	199	218	212	237	251	298
11		Time	Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL		(lm/gu)	CONC	*	114	120	9.66	125	420	227	191	145	121	155	143				
10		Time	Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL		(ng/ml)	CONC,	*	124	135	581	353	203	105	70.6	70.4	77.9	76.9	81.1	86.1	110	133	141
0		Time	Period	Po	P1	P2	РЗ	P4	P5	P6	P7	D8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

Сг-наг	(ng/ml) CONC	*	9.98	703	377	301	232	164	150	135	151	147	182	176	195	200	252
16	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	РЭ	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	138	124	104	95.3	85.1	93.0	92.8	9.98	91.4	117	71.8				
15 C	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	512	P13	P14	P15
	(ng/ml) CONC	*	129 F	110 F		77.2 F		122 F	149 F	168	192	195	159	167 F	192	225 F	249
CL-HAL	Time (r																
14	Ti	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
]CL-HAL	(ng/ml) CONC	*	136	6.86	61.2	54.7	54.9	96.1	160	144	149	141	156				
13	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

CL-HAL	(ng/ml) CONC	*	113	2.66	115	434	376	218	164	146	126	136	182	247	308	408	449
20	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	Р8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	178	362	282	225	202	158	147	152	177	191	227	242	277	312	337
19	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	229	161	124	209	256	283	228	217	243	250	272				
18	Time Period	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*	219	502	323	194	144	101	119	47.7	47.5	6.79	66.7	117	171	175	202
17	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

СГ-НМ	(ng/ml) CONC	*	267	133	189	136	113	101	108	88.1	114	88.3	105				
4	Time Period	P0	P1	P2	РЗ	P4	P5	P6	Р7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*	171	188	310	351	276	165	170	137	186	141	170				
3	Time Period	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*	190	142	112	112	234	278	166	166	154	136	137				
2 C	Time Period	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
E7.1							1==	1				1	1==	1		1	
CL-HM	(ng/ml) CONC	*	191	89.2	133	202	160	102	94.5	80.0	82.9	75.2	85.7				
1	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

СГ-НМ	(ng/ml) CONC	22.6	573	193	139	116	121	213	158	172	184	372	188				
8	Time Period	P0	P1	P2	РЗ	P4	P5	P6	P7	Р8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	14.8	243	209	336	122	100	148	196	149	158	142	120				
7	Time	Po	P1	P2	P3	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HM	(ng/ml) CONC	*	532	366	190	495	511	370	274	241	198	179	176				
9	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*	280	194	102	70.6	65.8	64.4	62.5	7.92	73.6	78.4	70.0				
5	Time Period	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

]сг-нм	(ng/ml) CONC	*	378	183	126	100	130	92.1	88.1	88.1	92.5	93.4	104				
12	Time Period	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*	211	153	183	134	199	106	98.2	64.3	60.5	63.6	57.9				
11	Time Period	PO	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HM	(ng/ml) CONC	*	999	278	195	214	136	185	189	202	190	193	154				
10	Time Period	РО	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HM	(ng/ml) CONC	15.3	134	9.66	9.09	59.6	62.9	109	75.9	70.2	94.8	59.6	48.8				
6	Time Period	P0	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

Final Perfusate Results (9/23/94) Hal/bpl 93-7 WR 178,460 as Free Base

]сг-нм	14]сг-нм	15]CL-HM
Time Period	(ng/ml) CONC	Time Period	(ng/ml) CONC	Time	(ng/m]) CONC
	*	Po	*	P0	*
	122	P1	188	P1	124
	70.2	P2	138	P2	88.7
	355	РЗ	94.2	РЗ	72.1
	275	P4	163	P4	75.6
	200	P5	116	P5	103
	123	P6	143	P6	84.7
	167	P7	167	P7	108
	190	P8	231	P8	126
	187	ЬЭ	198	Р9	92.7
	207	P10	177	P10	102
	204	P11	159	P11	87.5
		P12	·	P12	
		P13		P13	
		P14		P14	
		P15		P15	

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

]CL-HAL	(lm/gn)	CONC	*						•	1020	750	717	655	651				
	4	(hrs)	Time	PO	P1	P2	P3	Р4	P5	P6	P7	Р8	Pg	P10	P11	P12	P13	P14	P15
	CL-HAL	(lm/gu)	CONC	*							696	889	SN	639	NS				
	3	(hrs)	Time	P0	P1	P2	РЗ	P4	P5	Р6	P7	Р8	Р9	P10	P11	P12	P13	P14	P15
	CL-HAL	(lm/gn)	CONC	*													;		
	2	(hrs)	Time	Po	P1	P2	РЗ	P4	P5	P6	Р7	Р8	P9	P10	P11	P12	P13	P14	P15
	CL-HAL	(lm/gu)	CONC	*						1080	509	438	424	316	361				
SUBJ#	1	(hrs)	Time	P0	P1	P2	Р3	P4	P5	P6	P7	P8	Ь9	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

CL-HAL		(lm/gn)	CONC	*							289	392	251	155	135	119	113	106	137
8		(hrs)	Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
	,	_																	
CL-HAL	•	(lm/gu)	CONC	*					863	229	84.9	30.3	30.8	68.3	12.9				
7		(hrs)	Time	Po	P1	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
		_							,			,							
CL-HAL		(lm/gu)	CONC	*						673	444	353	312	342	340				
9		(hrs)	Time	PO	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
		_		,			,	,	,		,				-1"				
CL-HAL		(lm/gu)	CONC	*							698	772	590	462	518				
5		(hrs)	Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

CL-HAL	(ng/ml) CONC	*						844	625	505	537	486	440				
12	(hrs) Time	Р0	P1	P2	РЗ	Р4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*						289	362	301	234	214	295	243	264	247	340
11	(hrs) Time	PO	P1	P2	РЗ	P4	P5	Р6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*						611	387	243	159	217	155				
10	(hrs) Time	P0	P1	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
.1	(ng/ml) CONC						583	158	70.8	8.99	65.3	57.6	62.4	69.1	105	160	174
]cl-HAL	(ng CC						Ω.	1	7	9	9	5.	9	9			
6	(hrs) Time	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

CL-HAL	(ng/ml) CONC	*					1320	748	470	339	305	292	350	318	400	395	533
16	(hrs) Time	Po	P1	Р2	РЗ	P4	P5	P6	Р7	P8	P9	P10	P11	P12	P13	P14	P15
									Γ	_							
]cl-Hal	(ng/ml) CONC	*							756	476	439	444	323				
15	(hrs) Time	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
_		1			<u> </u>	 	Γ	Ť	ī	1			Γ	I	Γ	Г	
CL-HAL	(ng/ml) CONC	*						1070	722	564	494	418	174	393	271	350	539
14	(hrs) Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
		_	Π	1	T	_	Τ_	Т	Т	Г	Т	T	T	Т	T		
]CL-HAL	(ng/ml) CONC	*							838	740	491	700	765				
13	(hrs) Time	Po	P1	P2	P3	P4	P5	P6	P7	P8	6d	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

CL-HAL	(ng/ml) CONC	*						408	187	109	68.7	59.6	70.9	126	161	214	196
20	(hrs) Time	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*				1260	800	441	271	222	191	215	283	338	404	425	439
19	(hrs) Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*							842	1130	788	761	657				
18	(hrs) Time	Po	P1	P2	P3	P4	P5	P6	P7	P8	Б9	P10	P11	P12	P13	P14	P15
CL-HAL	(ng/ml) CONC	*			1270	563	355	178	72.4	64.3	39.0	61.3	54.2	158	315	354	446
17	(hrs) Time	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

]сг-нм	(ng/ml) CONC	*								1010	899	649	592				
4	(hrs) Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*					1250	525	373	167	294	231	297				
3	(hrs) Time	PO	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
-		Γ	T -				 		Γ	<u> </u>	Γ						
СГ-НМ	(ng/ml) CONC	*								918	869	269	559				
											Π						
2	(hrs) Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
2	(hrs)	Po	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
CL-HM 2	(ng/ml) (hrs)		P1	P2	P3	P4	942 P5	372 P6	291 P7	212 P8	218 P9	166 P10	202 P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

]сг-нм	(ng/ml) CONC	*															
8	(hrs) Time	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*							1090	825	892	463	456				
7	(hrs) Time	Po	P1	P2	РЗ	P4	P5	P6	Р7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*							926	706	554	586	459				
9	(hrs) Time	P0	P1	P2	P3	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
		_	_			_	_					1		1			_
]сг-нм	(ng/ml) CONC	*							1240	829	669	654	292				
2	(hrs) Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

	<u> </u>	$\overline{}$					_	\neg						1			
]сг-нм	(ng/ml) CONC	*								1000	202	663	270				
12	(hrs) Time	P0	P1	P2	P3	P4	P5	9 d	Ld	P8	P9	P10	P11	P12	P13	P14	P15
				· · · · · · · · ·													
]сг-нм	(ng/ml) CONC	*						1240	738	584	449	366	427				
11	(hrs) Time	Po	P1	P2	РЗ	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
		·		_													_
]сг-нм	(ng/ml) CONC	*									1130	686	733				
10	(hrs) Time	Po	P1	P2	Рз	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
			,	,						,		_	,		,	,	
]сг-нм	(ng/ml) CONC	*						200	492	388	474	360	336				
6	(hrs) Time	P0	P1	P2	РЗ	P4	P5	Р6	P7	P8	P9	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

Rat Perfusate Extraction Results (12/28/94) Hal/bpl 93-7 Halofantrine as Free Base

																	 -
]сг-нм	(ng/ml) CONC	*						845	609	467	497	517	510				
15	(hrs) Time	P0	P1	P2	РЗ	P4	P5	Р6	P.7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*								1230	1130	1190	1150				
14	(hrs) Time	P0	P1	P2	РЗ	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
СГ-НМ	(ng/ml) CONC	*					1190	1190	948	809	639	718	859				
13	(hrs) Time	Po	P1	P2	Рз	P4	P5	P6	P7	P8	Р9	P10	P11	P12	P13	P14	P15

* = below assay sensitivity

SUBJ#

1 Cl-Hal

5	Cl-Ha

8	<i></i>	 Cl-Ha

Time	(ng/ml)
Period	CONC
В0	*
B1	*
B2	NS
В3	231
B4	370
B5	
B6	
B7	

Time Period	(ng/ml) CONC
В0	*
B1	83.2
B2	244
В3	349
B4	509
B5	
В6	
B7	

Time Period	(ng/ml) CONC		
В0	*		
B1	55.0		
B2	179		
B3	2 62		
B4	381		
B5	6 56		
B6	8 95		
B7			

3 Cl-Hal

_	 		
6		CI	-Hal

1	^	C1 11-1
1	7	CI-Hai

Time	(ng/ml)
Period	CONC
В0	*
B1	115
B2	301
В3	NS
B4	NS
B5	
B6	
B7	

Time	(ng/ml)	
Period	CONC	
В0	*	
B1	85.2	
B2	171	
В3	319	
B4	367	
B5		
В6		
B7		

Time Period	(ng/ml) CONC		
В0	*		
B1	108		
B2	238		
Вз	368		
B4	534		
B5	790		
В6	1180		
B7			

4 Cl-Hal

7		C_1	-Ha
	 	 ٠,	

Time Period	(ng/ml) CONC
B0	*
B1	36.9
B2	81.4
В3	162
B4	291
B5	
В6	
B7	

Time	(ng/ml)
Period	CONC
B0	*
B1	73.6
B2	218
B3	405
B4	616
B5	
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	127
B2	353
В3	562
B4	787
B5	
B6	
B7	

11 Cl-Hal

14 Cl-Hal

17 Cl-Hal

Time	(ng/ml)
Period	CONC
В0	*
B1	177
B2	545
В3	829
B4	12 50
B5	1430
B6	1920
B7	

Time Period	(ng/ml) CONC
В0	*
B1	92.6
B2	307
В3	476
B4	615
B5	807
B6	987
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	47.2
B2	162
В3	271
B4 .	346
B5	535
B6	760
B7	921

12 Cl-Hal

15 Cl-Hal

18 Cl-Hal

Time	(ng/ml)
Period	CONC
B0	*
B1	60.5
B2	194
B3	393
B4	660
B5	
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	63.0
B2	126
В3	204
B4	317
B5	
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B 1	48.0
B2	246
В3	429
B4	784
B5	887
B6	
B7	

13 Cl-Hal

16 Cl-Hal

19 Cl-Hal

Time	(ng/ml)
Period	CONC
В0	*
B1	59.3
B2	171
В3	298
B4	424
B5	
B6	
В7	

Time	(ng/ml)
Period	CONC
В0	*
B1	*
B2	60.6
В3	161
B4	238
B5	378
B6	526
B7	683

Time	(ng/ml)
Period	CONC
В0	*
B1	22.5
B2	85.0
B3	276
B4	517
B5	829
B6	1120
B7	1570

Cl-Hal

3 CL-HM

6 CL-HM

Time	(ng/ml)
Period	CONC
В0	*
B 1	56.0
B2	292
В3	632
B4	950
B5	1390
B6	1880
B7	2280

Time Period	(ng/ml) CONC
В0	*
B1	29.2
B2	116
В3	213
B4	434
B5	687
B6	
В7	

Time	(ng/ml)
Period	CONC
В0	*
B1	74.0
B2	308
В3	538
B4	613
B5	655
В6	
B7	

1 CL-HM

CL-HM

7 CL-HM

Time	(ng/ml)
Period	CONC
В0	*
B1	22.0
B2	78.4
В3	146
B4	234
B5	344
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	67.6
B2	218
B3	269
B4	325
B5	317
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	87.4
B2	181
В3	288
B4	345
B5	303
B6	
B7	

CL-HM

5 CL-HM

8 CL-HM

Time	(ng/ml)
Period	CONC
В0	*
B1	68.8
B2	243
В3	431
B4	543
B5	532
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	55.3
B2	161
B3	160
B4	184
B5	153
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	62.2
B2	255
B3	407
B4	510
B5	448
B6	
B7	

9 CL-HM

12 CL-HM

15 CL-HM

Time	(ng/ml)
Period	CONC
В0	*
B1	43.7
B2	59.2
B3	99.8
B4	124
B5	120
B6	
B7	

Time	(ng/ml)
Period	CONC
B0	*
B1	67.0
B2	214
B3	251
B4	276
B5	231
B6	
B7	

Time	(1)
Thie	(ng/ml)
Period	CONC
В0	*
B1	57.3
B2	188
В3	229
B4	225
B5	147
B6	
B7	

10 CL-HM

13 CL-HM

Time	(ng/ml)
Period	CONC
B0	*
B1	155
B2	NS
Вз	862
B4	838
B5	619
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	27.7
B2	96.2
B3	264
B4	393
B5	431
B6	
B7	

11 CL-HM

14 CL-HM

Time	(ng/ml)
Period	CONC
В0	*
B1	60.4
B2	116
В3	133
B4	131
B5	
B6	
B7	

Time	(ng/ml)
Period	CONC
В0	*
B1	*
B2	23.1
В3	42.3
B4	135
B5	161
B6	
B7	

Final Liver Results (9/29/94) Hal/bpl 93-7 Halofantrine and WR 178,460 as Free Bases in Liver Homogenate (1 g/5 ml buffer)

halofantrine

CL-HAL

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CL-HAL

(hrs)	(μg/ml)
Time	CONC
L1	16.4
L2	NS
L3	15.6
L4	18.1
L5	30.1
L6	9.24
L7	8.51
L8	6.94
L9	15.3
L10	21.2
L11	16.1
L12	13.2
L13	29.2
L14	17.8
L15	21.3
L16	10.7
L17	8.57
L18	24.8
L19	6.20
L20	5.42

(hrs)	(μg/ml)
Time	CONC
L1	4.34
L2	NS
L3	4.54
L4	7.18
L5	6.52
L6	4.05
L7	5.88
L8	2.49
L9	7.33
L10	6.92
L11	11.6
L12	4.98
L13	4.21
L14	6.91
L15	4.66
L16	4.11
L17	3.13
L18	9.10
L19	3.91
L20	8.81

Subjects	CL-HM
,	

(hrs)	(µg/ml)
Time	CONC
L1	7.97
L2	27.3
L3	16.1
L4	39.4
L5	36.3
L6	51.2
L7	35.7
L8	68.3
L9	16.6
L10	51.5
L11	11.5
L12	50.9
L13	21.3
L14	48.5
L15	20.2

Subjects	CL-HM

(hrs)	(μg/ml)
Time	CONC
L1	2.58
L2	5.68
L3	7.84
L4	4.63
L5	2.84
L6	9.32
L7	4.09
L8	7.47
L9	2.31
L10	7.51
L11	1.34
L12	6.17
L13	3.74
L14	6.37
L15	3.45

ANALYTICAL RESULTS (Final 9/16/94) WR 238,605 Free Base in Plasma WR5/BP 93-8

SUBJ#	Sam
dose :	(ng/ml) CONC
SUBJ# Single dose	Sample (n No. C
S I	<u> </u>

13.5

4 5 6

25.2

2.33

19.7

0 0

47.8 58.0 40.4

41.1

Single dose

SUBJ#

Single dose

(lm/gu)	CONC	*	5.09	10.8	17.2	12.7	27.9	27.2	44.6	33.5	31.1	45.2	25.7	28.6	27.0	24.7	19.2	17.0	9.72	8.36	2.69
Sample	, o Z	_	2	င	4	5	9	7	8	6	1 0	11	12	13	14	15	16	17	18	1 9	20
			•					•			•		•	•							

47.6

39.7

6

33.5

52.2

32.8

32.2 20.6 10.3 9.46

16

15

(ng/ml) CONC	*	3.13	6.79	16.1	28.0	33.7	38.8	61.4	40.2	32.3	48.4	32.7	36.3	40.0	27.8	22.5	20.6	13.6	13.1	4.32
Sample No.	-	2	က	4	5	9	7	8	6	10	11	12	13	14	15	16	17	- 8	19	20

* = Below Assay Sensitivity NS = No Sample

4.03

ANALYTICAL RESULTS (Final 9/16/94) WR5/BP 93-8 WR 238,605 Free Base in Plasma

Single dose	(ng/ml) CONC	*	2.38	60'6	17.0	17.2	24.9	28.2	9.68	27.6	28.2	43.2	29.0	31.7	25.2	24.5	23.7	15.1	13.2	99.6	4.19
SUBJ#	Sample No.	-	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	2 0
		<u> </u>																			
Single dose	(ng/ml) CONC	*	*	4.20	4.90	10.2	19.3	21.2	21.7	21.3	23.3	25.8	23.7	25.2	24.8	16.6	17.3	12.8	8.95	6.49	4.31
SUBJ#	Sample No.	_	2	3	4	5	9	7	8	6	10	_	12	13	14	15	16	17	18	19	20
																	1	1			
Single dose	(ng/ml) CONC	*	4.86	9.71	6.91′	22.2	25.2	26.7	39.8	36.3	28.4	46.7	28.1	33.0	33.3	25.2	22.9	20.4	14.6	8.91	4.17
SUBJ#	Sample No.		2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	1 9	20

* = Below Assay Sensitivity NA = Not NS = No Sample NR = Not R

ANALYTICAL RESULTS (Final 9/16/94) WR 238,605 Free Base in Plasma WR5/BP 93-8

(ng/ml) CONC

6.82 25.4 73.8

66.5 77.6

101

82.8 79.5

76.2 84.1 68.0

NS

41.3

25.7 12.6 4.10

Single dose

SUBJ#	Sample No.	-	2	3	4	5	9	7	∞	6	1 0	11	12	13	14	15	16	17	18	19	2 0
Single dose	(ng/ml) CONC	*	*	4.76	27.6	38.5	40.0	57.2	92.4	55.7	47.9	61.6	62.8	63.9	62.8	50.8	32.3	30.8	20.4	16.0	8.98
SUBJ#	Sample No.		2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20
		I																	Ī		
Single dose	(ng/ml) CONC	*	*	5.13	,20.1	26.3	51.9	60.3	929	52.0	56.6	62.2	57.3	74.6	64.2	45.8	60.2	31.2	34.5	31.8	10.3
SUBJ#	Sample No.	T	2	3	4	5	9	7	8	0	10	11	12	13	1 4	15	16	17	18	19	20

* = Below Assay Sensitivity NS = No Sample

ANALYTICAL RESULTS (Final 9/16/94) WR5/BP 93-8 WR 238,605 Free Base in Plasma

(ng/ml) CONC

39.6

2.54

41.6

62.9

63.2

65.7 108

62.7 79.2

55.1 58.0

47.4

49.7 35.1

71.4

27.5

10.7

Single dose

SUBJ #	Sample No.	2	3	4	2	9	7	8	G	10	11	12	13	14	15	16	17	18	19	20
Single dose	(ng/ml) CONC	* *	4.69	33.4	44.5	52.3	59.3	106	76.2	72.3	85.0	82.9	65.5	61.6	58.2	55.7	40.9	23.1	14.2	7.68
SUBJ#	Sample No.	1	3	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	19	20
			T								1	<u> </u>								
Single dose	(ng/ml) CONC	*	11.6	33.0	38.0	6.69	74.8	2.96	71.7	75.5	72.4	72.0	84.1	78.1	58.2	52.9	37.3	30.0	21.8	9.72
SUBJ#	Sample No.	1	3	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	1 9	20

* = Below Assay Sensitivity NS = No Sample

ANALYTICAL RESULTS (Final 9/16/94) WR5/BP 93-8 WR 238,605 Free Base in Plasma

Single dose	(ng/ml) CONC	* 0	31.5	51.0	85.0	131	152	178	129	134	146	142	157	108	120	98.6	9.29	61.7	54.5	21.7
SUBJ# 15	Sample No.	- 0	N (C)	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	1 9	20
			T																	
Single dose	(ng/ml) CONC	* 1	3.54	36.0	54.8	85.0	106	139	117	116	137	106	170	120	8.66	73.1	68.2	44.3	35.5	17.2
SUBJ #	Sample No.	1	3 2	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	19	2.0
				·	1			,					_			T				-
Single dose	(ng/m]) CONC	*	4.82	41.6	74.5	105	119	142	115	116	126	102	123	108	92.3	105	72.4	47.2	38.6	22.2
SUBJ#	Sample No.	-	7	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	1 9	20

* = Below Assay Sensitivity NS = No Sample

64.0 47.5

71.7

ANALYTICAL RESULTS (Final 9/16/94) WR5/BP 93-8 WR 238,605 Free Base in Plasma

(ng/ml) CONC

19.9 59.3 44.6

103

223

3.28

Single dose

SUBJ # 7	Sample No.	1	2	3	4	5	9	7	8	6	10	1.1	12	13	14	15	16	17	18	19	20
Single dose	(ng/ml) CONC	*	4.52	7.51	21.6	61.4	140	137	142	139	132	129	178	133	113	88.5	9.08	54.5	43.2	26.5	11.8
SUBJ #	Sample No.	-	2	3	4	5	9	7	8	6	10		12	13	14	15	16	17	18	19	20
																•			-		
Single dose	(ng/ml) CONC	*	*	7.91	22.7	78.4	184	173	212	165	155	190	150	205	195	179	140	8.06	71.4	59.8	26.8
		-	2	က	4	5	9	7	œ	6	0	ΙΞ	2	က	4	5	9	_	8	6	0
SUBJ #	Sample No.																				2

0.66

136 163 106 123

149

187

* = Below Assay Sensitivity NA = Not Applicable NS = No Sample NR = Not Run

ANALYTICAL RESULTS (Final 2/7/95) WR5/BP 93-8 WR 238,605 Free Base in Blood

Single Oral dose	(ng/ml) CONC	*	5.89	17.4	26.4	52.3	45.0	64.5	75.0	42.0	50.7	70.2	41.7	56.5	58.0	22.0	39.8	34.0	20.8	20.1	11.8
SUBJ#	Sample No.	1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20
Single Oral dose	(ng/ml) CONC	*	10.2	14.8	24.2	29.1	12.6	51.7	60.5	16.1	62.4	56.6	66.4	63.8	44.0	43.7	28.1	20.1	16.7	14.0	5.61
SUBJ#	Sample No.	-	2	3	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	19	20
_																					
Single Oral dose	(ng/ml) CONC	*	3.59	3.49	8.32	43.6	10.3	3.95	108	2.17	16.2	93.8	11.0	57.4	64.0	12.6	50.5	20.2	25.6	18.0	8.19
SUBJ#	Sample No.		2	3	4	5	9	7	8	6	10	1-1-1	12	13	14	15	16	17	18	1 9	20

* = Below Assay Sensitivity NS = No Sample

ANALYTICAL RESULTS (Final 2/7/95) WR5/BP 93-8 WR 238,605 Free Base in Blood

Single Oral dose	(ng/ml) CONC	*	6.62	15.9	26.2	30.3	23.3	32.8	70.9	54.7	63.0	66.1	6.09	68.2	50.2	44.5	38.5	29.1	20.7	15.2	8.05
SUBJ#	Sample No.	-	2	8	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20
41			1	-		-			r	1	1				I		<u> </u>			I * -	
Single Oral dose	(ng/ml) CONC	*	*	4.30	8.63	14.4	35.1	33.4	37.1	40.2	46.2	41.7	35.4	32.2	34.2	22.3	21.8	13.4	*	7.00	*
SUBJ#	Sample No.	-	2	3	4	2	9	7	8	6	10	-	12	13	14	15	16	17	18	19	20
<u></u>			1				<u> </u>	·		J	!	•	•	<u> </u>		<u></u>				•	
Single Oral dose	(ng/ml) CONC	*	4.08	16.1	30.9	34.9	43.9	15.3	58.5	22.4	24.8	65.0	55.6	52.8	48.5	37.1	43.5	27.6	20.2	15.4	8.63
		-	2	က	4	Ŋ	9	_	Ī∞	6	0	=	12	13	14	15	16	17	18	19	20

* = Below Assay Sensitivity NS = No Sample

ANALYTICAL RESULTS (Final 2/7/95) WR5/BP 93-8 WR 238,605 Free Base in Blood

Single Oral dose	(ng/ml) CONC	*	*	12.6	57.4	94.5	138	153	185	159	152	113	148	133	104	9.68	NS	57.5	37.6	15.1	8.39	
SUBJ#	Sample No.	_	2	ဇ	4	5	9	2	8	6	10	11	12	13	14	15	16	17	18	19	20	
												·		_		•						:
Single Oral dose	(ng/ml) CONC	*	*	8.18	48.5	80.5	98.2	95.7	114	122	106	96.4	108	90.5	78.2	68.0	63.8	44.9	31.3	26.5	13.9	
SUBJ#	Sample No.	-	2	င	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	
<u></u>		•	<u> </u>				J			-1	•	· • · · · ·	•	1,	1	•			•			
Single Oral dose	(ng/ml) CONC	*	2.96	12.9	49.3	56.9	118	117	143	139	133	112	116	129	101	71.1	81.4	62.7	43.9	34.6	20.4	
SUBJ#	Sample No.		2	က	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	2.0	

* = Below Assay Sensitivity NA = I NS = No Sample NR = N

ANALYTICAL RESULTS (Final 2/7/95) WR5/BP 93-8 WR 238,605 Free Base in Blood

Single Oral dose	(ng/ml) CONC	*	4.99	80.4	9.76	115	209	234	217	207	191	185	198	173	171	125	115	86.3	80.9	45.3	25.0	
SUBJ #	Sample No.	-	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	1 9	20	
																						NA = Not Applicable NR = Not Run
Single Oral dose	(ng/ml) CONC	*	*	11.5	71.2	105	147	178	224	203	172	161	171	140	136	111	113	77.9	44.9	30.5	14.8	
SUBJ #	Sample No.	-	2	8	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	1 9	20	Sens
																						* = Below Assay NS = No Sample
Single Oral dose	(ng/ml) CONC	*	2.89	20.9	,65.4	70.2	144	171	163	166	150	122	149	116	115	90.7	9.98	60.1	40.6	26.4	15.5	
SUBJ #	Sample No.		2	က	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	1 9	20	

ANALYTICAL RESULTS (Final 2/7/95) WR5/BP 93-8 WR 238,605 Free Base in Blood

مهمار اسال ماهمین	Single Oral dose	(lm/gu)	CONC	*	15.2	57.6	151	187	280	341	298	303	288	249	297	216	205	181	141	120	114	86.5	41.6
SUBJ#	61	Sample	No.	-	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20
ومدلا اصلا	Single Oral dose	(lm/gu)	CONC	*	8.84	31.8	83.0	131	201	177	206	208	186	197	190	189	192	169	181	132	95.2	54.2	27.5
SUBJ#	14	Sample	No.	-	2	က	4	5	9	7	8	6	10	-	12	13	14	15	16	17	18	19	20
7	dose	(Fe	ZC ZC		9.26	36.6	93.7	131	198	233	294	249	218	218	216	211	220	181	163	112	9.68	74.1	51.2
	Single Oral dose	(lm/gn)	CONC	*	6	3	5,																

* = Below Assay Sensitivity N. NS = No Sample N.

ANALYTICAL RESULTS (Final 2/7/95) WR5/BP 93-8 WR 238,605 Free Base in Blood

Single Oral dose	(ng/ml) CONC	*	8.71	47.3	169	189	347	363	349	402	364	349	333	337	261	196	162	155	105	85.1	41.8	
SUBJ#	Sample No.		2	ဇ	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	
																						NA = Not Applicable NR = Not Run
Single Oral dose	(ng/ml) CONC	*	10.0	20.4	64.2	171	302	316	327	329	325	314	289	276	243	193	174	115	80.8	59.7	26.1	
SUBJ#	Sample No.	-	8	ဇ	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	1 9	2 0	* = Below Assay Sensitivity NS = No Sample
-													_									* = Below Assay NS = No Sample
Single Oral dose	(ng/ml) CONC	*	*	20.6	62.7	224	406	360	428	428	353	337	475	470	362	274	263	168	135	104	50.2	
SUBJ #	Sample No.	-	2	3	4	2	9	7	8	6	10	-	12	13	14	15	16	17	18	19	20	

CONCENTRATIONS OF WR 269,410 IN DOG PLASMA (Continued) STUDY 93-9

		IV Dose			
Dog No.	1148	1149	1151	1152	1153
	Conc.	Conc.	Conc.	Conc.	Conc.
Time	(ng/ml)	(ng/ml)	(ng/ml)	(ng/ml)	(ng/ml)
0 min.	*	*	*	*	*
3 min.	3340	25 30	3310	2950	2860
5 min	3010	2420	3620	279 0	2570
10 min.	2300	2160	2620	2420	2280
20 min.	1640	1510	1950	1840	1820
30 min.	1240	125 0	1550	146 0	1390
45 min.	1010	918	1150	102 0	1080
1.0 hr.	7 66	873	957	687	1040
1.5 hr.	517	636	656	668	693
2.0 hr.	421	562	639	527	648
2.5 hr.	378	42 5	488	37 9	559
3.0 hr.	333	357	497	314	NS
4.0 hr.	238	268	403	257	331
6.0 hr.	181	141	240	176	192
8.0 hr.	133	129	190	12 9	140
12 hr.	89.5	77.4	154	67.5	<i>77.</i> 3
24 hr.	28.4	25.6	41.6	27.8	22.0
28 hr.	25 .3	22.4	34.3	21.8	19.6
36 hr.	15.6	NS	NS	17.1	NS

48 hr.

12.5

NS

NS

9.31

NS

^{*} Below Limit of Quantitation - 4.08 ng/ml NS - No Sample

CONCENTRATIONS OF WR 269,410 IN DOG PLASMA STUDY 93-9

Oral Dose

Dog No.	1148	1149	1151	1152	1153
Time	Conc. (ng/ml)	Conc. (ng/ml)	Conc. (ng/ml)	Conc. (ng/ml)	Conc. (ng/ml)
0 min	*	*	*	*	*
3 min.	9.86	6.45	8.84	16.2	4.48
5 min	27.6	25.2	24.4	31.6	21.3
10 min.	109	47.9	56.7	157	62.1
20 min.	408	230	207	42 6	230
30 min.	558	385	388	58 8	309
45 min.	667	516	567	56 9	447
1.0 hr.	663	568	519	559	541
1.5 hr.	538	47 4	434	384	632
2.0 hr.	468	412	381	325	214
2.5 hr.	355	335	334	23 6	452
3.0 hr.	27 9	237	231	196	364
4.0 hr.	183	114	210	119	242
6.0 hr.	66.7	96.2	173	71. 0	138
8.0 hr.	72. 1	67.8	119	62. 8	102
12 hr.	46.4	51.3	104	38.7	59.3
24 hr.	18.7	1 4. 8	35.8	14.1	18.3
28 hr.	17.3	16.9	26.1	14.8	16.8
36 hr.	NS	9.83	15.7	NS	11.1
48 hr.	NS	7.28	11.3	NS	7.54

^{*} Below Limit of Quantitation - 4.08 ng/ml

Monkey blood t	Monkey blood final results				
11/22/94	11/22/94				
Subject	86085				
Sample No.	(ng/ml)				
1	78.3				
2	58.9				
3	60.1				
4	42.6				
Subject	12589				
Sample No.	(ng/ml)				
1	91.4				
2	89.2				
3	80.7				
4	88.6				
Subject	86040				
Sample No.	(ng/ml)				
1	30.9				
2	35.9				
3					
4					

CONCENTRATIONS OF WR 269,410 IN RAT PLASMA STUDY 94-2

	Oral Pilot		IV Pilot
	Conc.		Conc.
Rat No Time (hr)	(ng/ml)	Rat No Time (hr)	(ng/ml)
49-0	*	0-0	*
25-0.25	96.2	1-0.25	1110
26-0.25	2 59	2-0.25	89 8
27-0.50	197	3-0.5 0	567
28-0.50	111	4-0.50	7 09
29-0.75	85.0	5-0.75	477
30-0.75	32 3	6-0.75	30 9
31-1.0	<i>5</i> 3.8	7-1.0	24 5
32-1.0	17 8	8-1.0	247
33-2.0	81.0	9-2.0	132
34-2.0	51. 5	10-2.0	62 .8
35-3.0	43.4	11-3.0	31.8
36-3.0	30.2	12-3.0	27 .2
37-4.0	30.4	13-4.0	23.2
38-4.0	34.3	14-4.0	24 .1
39-6.0	14.4	15-6.0	16 .9
40-6.0	41.6	16-6.0	12.4
41-8.0	14.0	17-8. 0	8. 66
42-8.0	8.47	18-8.0	7.61
43-12	6.24	19-12	6.24
44-12	8.97	20-12	8. 16
45-24	*	21-24	*
46-24	*	22-24	*
47-24	*	23-24	*
48-24	*	24-24	*

^{*} Below Limit of Quantitation - 4.08 ng/ml

CONCENTRATIONS OF WR 269,410 IN RAT PLASMA (Continued) STUDY 94-2

Rat No Time (hr)	Oral Main Conc. (ng/ml)	Rat No Time (hr)	IV Main Conc. (ng/ml)
, ,	(8,)	ration into (in)	(118/ im)
100-0	*	151-0	*
50-0.25	47 8	101-0.25	792
51-0.25	447	102-0.25	803
52-0.25	2 61	103-0.25	915
53-0.25	186	104-0.25	885
54-0.50	234	105-0.50	506
55-0.50	186	106-0.50	3 98
56-0.50	2 56	107-0.50	53 6
<i>57-</i> 0.50	3 39	108-0.50	63 8
58-0. <i>7</i> 5	251	109-0.75	3 69
<i>59-0.75</i>	240	110-0.75	27 8
60-0.75	354	111-0.75	374
61-0.75	138	112-0.75	29 3
62-1.0	83.2	113-1.0	2 52
63-1.0	205	114-1.0	28 5
64-1.0	117	115-1.0	192
65-1.0	79 .0	116-1.0	225
66-2.0	57.3	117-2.0	92.4
67-2.0	40.5	118-2.0	79. 6
68-2.0	46.3	119-2.0	85 .8
69-2.0	49.2	120-2.0	56.4
70-3.0	20.1	121-3.0	28 .3
71-3.0	33.8	122-3.0	28. 0
72-3. 0	31.7	123-3.0	24. 3
73- 3.0	37. 4	124-3.0	35 .0
74-4.0	35.9	125-4.0	21.4
75-4.0	20.6	126-4.0	24 .3
76-4.0	22.2	127-4.0	30.5
77-4.0	26.6	128-4.0	20.6
78-6.0	15.4	129-6.0	9.57
79-6.0	14.2	130-6.0	8.61
80-6.0	19.3	131-6.0	9.76
81-6.0	12.1	132-6.0	10.1

^{*} Below Limit of Quantitation - 4.08 ng/ml

CONCENTRATIONS OF WR 269,410 IN RAT PLASMA (Continued) STUDY 94-2

	Oral Main Conc.		IV Main Conc.
Rat No Time (hr)	(ng/ml)	Rat No Time (hr)	(ng/ml)
82-8.0	12.2	133-8.0	5.87
83-8.0	8.72	134-8.0	5.74
84-8.0	15. 5	135-8.0	10.6
85-8.0	8.39	136-8.0	7. 30
86-12	5.94	137-12	*
87-12	4.64	138-12	*
88-12	7.36	139-12	4.39
89-12	6.84	140-12	*
90-24	*	141-24	*
91-24	*	142-24	*
92-24	*	143-24	*
93-24	*	144-24	*
94-48	*	145-48	*
95-48	*	146-48	*
96-48	*	147-48	*
97-48	*	148-48	*
98-48	*	149-48	*
99-48	*	150-48	*

^{*} Below Limit of Quantitation - 4.08 ng/ml

WR6/PU 94-3.final

			Plasma	Urine	Urine	Urine
Subject	Time		WR211789	WR6026	WR211789	WR254421
		(ng/mi)	(ng/mi)	(ng/ml)	(ng/ml)	_(ng/mi)
I A	WK-1	* I	*	*	* 1	•
	Day 7	63.2	43.3	215	82.4	1510
 1B	WK-1	* 1	*	*!	•	•
· -	Day 7	8.29	11.9	264	96.4	1380
	Day 14	9.11	12.1	191	62.1	831
	Day 21	7.94	11.1	245	88.1	1000
	Day 28	6.66	10.1	70.9	59:	468
	Day 42	*1	*	*	* (+
		*	*	*	* 1	
1C	WK-1					004
	Day 7	45.1		115	45.7	824
	Day 14	33	61.1	68.8	36.3	610
	Day 21	28.5		24.3	16.	271
	Day 28	28.5	54.6			54.3
	Day 35		*	ns:	ns	ns
1D	WK-1	* 1	*	± 1	*	1
	Day 7	33.7	34.7	163	54.8	2350
	Day 14	37.4	40.1	37.2	15.2	522
	Day 21	29.5	39.1	22.6	11.6	47
	Day 28	26.1	33.8	9.33	8.09	23
	Day 42	*.	*	*1	*	
2A	WK-1	*	*	* '	*	
	Day 7	197	124	636	276	151
	Day 14	30.3		590.	267	136
	Day 21	63.9	90.4		872	299
	Day 28	58.1		(day 31) 28.5	(day 31)14.0	(day 31)73.
	Day 42	*	*	• 1	*	
2B	WK-1	*	*	* 1	*	
	Day 7	362	102	697	189	183
	Day 14	230	108			439
	Day 14	71.4	90.4			179
day 30	Day 28	41.8			(day 30)114	
<u>uu, oo</u>	Day 42	*		(44) 55)	*	
			<u> </u>			
2C	WK-1				10.6	48
	Day 7	38.3				
	Day 14	29.5				
	Day 21	24.2				85
	Day 28	15.2	26.2	+		. 13
L	Day 42	<u> </u>	· · · · · · · · · · · · · · · · · · ·			

WR6/PU 94-3.final

		Plasma Plasma		Urine	Urine	Urine
Subject	Time		WR211789	WR6026	WR2117891	WR254421
		(ng/ml)	(ng/ml)	(ng/ml)	(ng/ml)	(ng/ml)
	1447	*1	-	*!		
2D	WK-1			- i		
	Day 7	198	92.1	36.5	21.7	641
	Day 14	135	67.1	357	111	2430
	Day 21	85.2	52.8	264	82.7	2400
	Day 28	52.	41	27.6	28.9	680
	Day 31	3.87	1.33	ns:	ns	ns
2E	WK-1	* 1	*	• [*!	*
	Day 7	956	362	828	578	252
	Day 14	671	300	1510	710	276
	Day 21	563.	191	1720	740!	452
	Day 28	661	220	577	262	165
	Day 42	3.89		16.6	*!	*
		* 1		* (
2F	WK-1					
	Day 7	56.8	56.9	246	137	1480
	Day 14	64.7	51.5	633	319:	1850
	Day 21	53.8	40.5	707	339	2500
	Day 28	44.1	36.1	139	148	967
	Day 42	* '		*1	*!	*
3A	WK-1	*	•	*	**	*
	Day 7	72.4	58.3	505	286:	6060
	Day 14	39.9	33.4	539	282	3820
	Day 21	34.4	24.9	245	82.3	2730
	Day 28	43.7	30	209	159	2490
	Day 42	*	*	*	# 1	67.3
		*		* 1		
3B	WK-1					0000
	Day 7	142	84.2	366	228	2000
	Day 14	106	81.6	403	397	2560
	Day 21	136	95.5	455	223	1620
	Day 28	271	146	177	164	1400
—	Day 42					
 3C	WK-1	*	*	**	• :	,
	Day 7	185	144	443	250	1580
	Day 14	115	108	915	753	1780
	Day 21	112	90.8	2260	1230!	283
	Day 28	67	56.6	238	229	125
	Day 42	*	*	4 1	*!	

WR6/PU 94-3.final

		Plasma	Plasma	U rine:	Urine	Urine
Subject	Time	WR6026	WR211789	WR6026	WR211789	WR254421
		(ng/ml)	(ng/ml)	(ng/ml)	(ng/ml)	(ng/mi)
				i		
3D	WK-1	**		*!	* -	*
	Day 7	370:	118	792	295	2190
	Day 14	245	109	_695	258	1970
	Day 21	161	81.8	2180	740	3900
	Day 28	146	79.4	2 52:	185	1470
	Day 42	* -	*	*1	*1	*
3E	WK-1	* 1	*	* 1	*	•
<u> </u>	Day 7	150:	71.9	644!	305	2290
	Day 14	63.4	45.6	675	327	2120
	Day 21	61	47.9	1310	529	2920
	Day 28	61	41.3	302	200	972
	Day 42	* 1	*	*	• 1	•
3F	WK-1	•		*1	*1	*
<u> </u>	Day 7	267	105	189	40.7	1050
	Day 14	111	87.2	152	32.8	728
	Day 14	140	73.9	528	167	2280
	Day 28	128	62.2	108	58.2	955
	Day 28	120	•	108:	#1	- 300

94-4 final data11/21/94

Plasma resu	lts I	Blood results		
r lasilia resa	1.0	Dioda results		:
Subject 1		Subject 1		
Subject 1		Subject 1		;
				,
sample	conc (ng/ml)		conc (ng/mi)	
1		1	*	;
2	238	2	453	
3	164	3	313	<u> </u>
4	158	4	267	
5	159	5	209	'
6	72.2	6	107	
7	40.8	7	70.0	
Subject 3		Subject 3		
Cubject C		0.00,000		:
sample	conc (ng/mi)	sample	conc (ng/ml)	
1	*	1	*	
2	283	2	417	
3	195	3	240	
4		4	209	
5		5	156	
6		6	83.3	
7	26.1	7	44.8	
				· · · · · · · · · · · · · · · · · · ·
Subject 4		Subject 4		
sample	conc (ng/ml)	sample	conc (ng/ml)	
1	*	1	*	
2	182	2	244	
3	96.3	3	124	
4	·	4	· · · · · · · · · · · · · · · · · · ·	
5		5		, , , , , , , , , , , , , , , , , , , ,
6		6		
7		7		
} <i>'</i>	17.0		22.0	
Subject 5		Subject 5		· · · · · · · · · · · · · · · · · · ·
Subject 5		Subject 5		
	cono /ng/ml\			
sample	conc (ng/ml)	sample	conc (ng/ml)	
1		1	<u> </u>	
2		2		
3		3		
4		4		
5	137	5		
6	51.7	6	84.3	
7	30.5	7	46.5	

WR5/P 94-5

TABLE 1: ACCURACY OF WR 238,605 (AS FREE BASE) DOG PLASMA ASSAY (BLIND STUDY RESULTS) October 94

Sample Number	Spiked Level (ng/ml)	Measured Level# (ng/ml)	Statistics (ng/ml)
1,2,5,7 9,10,14,15 18,19,22,24 26,28,29	0	* * * *	
6 12	2	3.86 4.28	Mean = 4.07 SD = 0.297 Percent CV = 7.30 Percent Bias = 104
3 16 27	5	5.02 5.53 5.74	Mean = 5.43 SD = 0.370 Percent CV = 6.82 Percent Bias = 8.60
11 17 25	12	11.6 12.7 13.0	Mean = 12.4 SD = 0.737 Percent CV = 5.93 Percent Bias = 3.61
13 23	60	61.4 70.4	Mean = 65.9 SD = 6.36 Percent CV = 9.66 Percent Bias = 9.83
4 21 30	220	184 263 226	Mean = 224 SD = 39.5 Percent CV = 17.6 Percent Bias = 1.97
8 20	380	316 279	Mean = 298 SD = 26.2 Percent CV = 8.79 Percent Bias = -21.7

[#] Mean of three analyses.

Subject No.	1	2	3	4	7	8	10	11
oubject Ivo.			<u> </u>		onc.	0	10	11
Day and Hour					/ml)			
				(118	, III)			
Day 1 - 0	*	*	*	*	*	*	*	*
Day 1 - 1.0	12.3	18.5	9.64	18.1	18.1	11.9	5.34	6.44
Day 1 - 1.5	17. <i>7</i>	18.2	17.2	26.8	21.7	26.1	11.2	11.3
Day 1 - 2.0	17.5	26.3	22. 3	22.3	28.7	26.5	12.9	11.8
Day 1 - 2.5	18.3	21.6	22.4	15.7	26.1	23.8	15.7	11.5
Day 1 - 3.0	12.9	14.7	17.3	14.7	22.0	21.2	14.6	14.2
Day 1 - 4.0	9.07	10.9	14.0	10.9	15.5	1 7. 5	11.1	10.8
Day 1 - 5.0	6.35	6.87	9.35	6.58	10.8	12.3	8.14	7. 25
Day 1 - 6.0	4.04	4.72	7.65	4.58	6.65	7.30	4.85	5.86
Day 1 - 7.0	3.20	2.52	5.63	2.79	4.67	5.22	4.34	4.20
Day 1 - 8.0	2.40	*	5.44	2.31	4.06	4.72	3.39	3.28
Day 4 - 0	2.77	4.74	7.1 6	3.57	5.86	8.54	6.13	3.19
Day 7 - 0	2.70	3.36	8.44	*	6.37	6.33	7. 69	8.06
Day 9 - 0	3.66	4.19	6.15	*	7.56	10.1	5.39	5.70
Day 11 - 0	2.66	6.52	6.40	2.45	6.89	9.90	5.22	5.61
Day 14 - 0	5.44	3.82	7.7 5	5.92	7.33	12.3	5.84	9.34
Day 16 - 0	2.34	3.09	6.63	3.91	7.31	9.18	8.52	5.08
Day 18 - 0	3.94	4.69	5.15	2.98	6.04	12.1	7.71	5.01
Day 21 - 0	4.00	6.04	8.10	4.78	7.73	8.98	4.61	4.33
Day 22 - 0	5.03	5.83	7.50	4.26	11.2	11.5	7.33	5.43
Day 22 - 1.0	22.7	20.5	16.1	25 .5	11.5	21.3	8.47	10.2
Day 22 - 1.5	28.7	25.3	18.7	23.6	24.2	24.0	11.8	15. 5
Day 22 - 2.0	30.0	21.0	27.9	21.3	28.6	24.7	13.1	16.2
Day 22 - 2.5	27.7	17.4	25.7	16.4	31.5	23.6	15.5	16.1
Day 22 - 3.0	21.9	15.3	28.9	14.3	27.9	20.4	17.3	14.9
Day 22 - 4.0	20.1	9.51	24.8	11.7	17.6	16.1	14.4	12.2
Day 22 - 5.0	13.1	6.66	15.2	8.10	12.8	12.5	11.9	9.65
Day 22 - 6.0	7.64	5.17	13.4	5.08	8.98	7.76	7.80	<i>7</i> .57
Day 22 - 7.0	5.60	2.52	9.45	3.73	7.22	6.89	6.42	5.7 0
Day 22 - 8.0	4.55	2.86	9.45	3.32	5.30	5.46	5.06	4.27
Day 22 - 10	3.94	1.86	7.84	2.63	4.48	3.41	4.37	3.01
Day 22 - 12	2.18	*	5.15	*	2.79	2.94	2.70	3.03
Day 22 - 14	1.74	*	4.62	*	2.27	2.05	2.08	1.66
Day 22 - 18	*	*	3.29	*	1.89	1.65	*	*
Day 22 - 24	*	*	2.10	*	1.85	*	*	*
Day 22 - 28	*	*	2.88	*	*	*	*	*
Day 22 - 36	*	*	2.30	*	*	*	*	*
Day 22 - 40	*	*	2.33	*	*	*	*	*
Day 22 - 48	*	*	2.00	*	*	*	*	*
Day 22 - 52	*	*	1.97	*	*	*	*	*
Day 22 - 56	*	*	*	*	*	*	*	*
Day 22 - 60	*	*	*	*	** u.	*	*	*
Day 22 - 66	*	*	*	*	*	*	*	*
Day 22 - 72	•	*	*	*	*	*	*	*

^{*} Below Limit of Quantitation - 1.53 ng/ml; BC - Unacceptable Chromatogram

Subject No.	13	15	16	18	20	21	23	24
Subject No.	13	15	10			41	23	24
Dav and Hour					onc. /ml)			
Day and Hour	!			1118	, 1111,			
Day 1 - 0	*	*	*	*	*	*	*	*
Day 1 - 1.0	9.22	*	3.22	3.54	13.6	14.9	15.9	13.1
Day 1 - 1.5	11.2	4.92	6.96	4.71	17.0	17.8	17.8	15.4
Day 1 - 2.0	10.8	9.29	12.3	5.23	20.9	24.0	16.7	15. 3
Day 1 - 2.5	10.5	10.4	11.8	7.14	17.4	26. 0	21.5	13.4
Day 1 - 3.0	10.0	10.9	13.6	8.04	14.0	22.8	21.0	12.1
Day 1 - 4.0	9.78	10.1	22.9	5.7 3	10.7	18.1	17. 0	8.86
Day 1 - 5.0	6.64	6.13	15.0	3.44	8.02	13.4	10.0	6.84
Day 1 - 6.0	4.47	4.34	10.1	2.10	5.35	7.71	6.81	5.07
Day 1 - 7.0	3.55	2.92	8.41	*	4.01	5.61	6.18	3.30
Day 1 - 8.0	3.30	2.66	6.69	*	2.76	5.28	4.17	3.35
Day 4 - 0	8.26	4.94	6.94	3.81	5.47	9.65	8.46	10.4
Day 7 - 0	6.11	4.60	9.54	2. 20	6.37	6.30	7.40	9.67
Day 9 - 0	7.93	3.50	6.65	5.88	6.51	11.2	9.91	9.48
Day 11 - 0	7.21	3.91	7.37	3.98	3.95	7.26	8.62	8.83
Day 14 - 0	5.95	5.66	9.70	3.65	3.16	10.9	8.95	7.93
Day 16 - 0	5.91	2.79	8.20	2.18	6.32	8.90	8.27	7.63
Day 18 - 0	5.05	5.66	5.37	2.62	3.88	6.86	7.12	6.64
Day 21 - 0	3.91	6.15	6.59	2.67	3.25	7.38	9.47	7.37
Day 22 - 0	5.03	5.32	5.59	3.56	4.35	15.1	8.83	10.4
Day 22 - 1.0	12.6	7.68	6.15	6.39	26.1	55.1	32.5	33.0
Day 22 - 1.5	15.5	11.8	11.6	11.4	25.2	52.9	33.5	30.7
Day 22 - 2.0	15.4	16.8	15.9	12.6	20.8	46.6	28.6	27.1
Day 22 - 2.5	15.0	20.9	20.0	11.5	17.3	48.8	28.6	24.8
Day 22 - 3.0	12.8	20.9	19.5	12. 3	15.6	38.5	26.3	21.6
Day 22 - 4.0	10.6	14.1	14.3	9.65	11.4	30.6	22.8	17.7
Day 22 - 5.0	8.89	12.3	12.2	6 .96	8.43	28.7	16.8	16.6
Day 22 - 6.0	5.66	8.13	7.99	3.14	4.07	14.7	10.6	10.7
Day 22 - 7.0	5.30	5.93	5.86	2.53	2.95	10.7	10.3	8.98
Day 22 - 8.0	3.66	5.26	8.95	1.83	2.67	9.02	8.00	7. 69
Day 22 - 10	3.23	2.05	2.70	*	1.78	4.56	4.30	5.41
Day 22 - 12	2.45	*	1.82	*	*	2.64	2.39	3.84
Day 22 - 14	*	*	*	*	*	2.34	3.35	3.50
Day 22 - 18	*	*	*	*	*	1.94	1.83	1.80
Day 22 - 24	*	*	*	*	*	*	1.76	*
Day 22 - 28	*	*	**	*	*	*	*	*
Day 22 - 36	*	*	*	*	*	*	*	*
Day 22 - 40	*	*	*	*	*	*	*	*
Day 22 - 48	*	*	*	*	*	*	*	*
Day 22 - 52	*	*	*	*	*	*	*	*
Day 22 - 56	*	*	*	*	*	*	*	*
Day 22 - 60	*	*	*	*	*	*	*	*
Day 22 - 66	*	*	*	*	*	*	*	*
Day 22 - 72	*	*	*	*	*	*	*	*

^{*} Below Limit of Quantitation - 1.53 ng/ml; BC - Unacceptable Chromatogram

Subject No.	26	27	28	29	31	32	33	38
		-			onc.			
Day and Hour		_			/ml)		_	
Day 1 0	*	*	*	*	*	*	*	*
Day 1 - 0								
Day 1 - 1.0	22.6	25.5	20.4	32.3	31.1	12.0	21.3	2.25
Day 1 - 1.5	25.9	25.7	50.7	22.5	32.1	14.4	22.0	3.91
Day 1 - 2.0	17.5	25.3	22.0	45.3	*	23.0	12.2	14.5
Day 1 - 2.5	15.6	24.5	24.4	35.6	18.3	14.6	17.7	23.0
Day 1 - 3.0	11.6	27.1	19.7	33.4	16.2	13.9	13.7	15.9
Day 1 - 4.0	7.60	19.7	13.5	24.9	12.5	9.84	10.2	10.8
Day 1 - 5.0	6.07	16.6	9.48	15.0	9.31	8.26	7.79	6.5 0
Day 1 - 6.0	4.38	10.9	7. 60	10.8	5.9 5	4.96	6.12	3.22
Day 1 - 7.0	4.11	8.37	3.89	8.35	4.80	3.76	3.92	2. 96
Day 1 - 8.0	3.78	6.91	3.05	6.27	4.11	3.34	3.34	2.00
Day 4 - 0	12.1	13.0	6.36	8.21	7.89	9.63	9.70	*
Day 7 - 0	9.35	13.4	7.37	5.98	9.18	9.18	7.23	4.03
Day 9 - 0	12.6	16.1	8.16	7.44	8.68	12.9	8.73	3.05
Day 11 - 0	7.78	13.4	5.32	7.13	8.10	11.2	10.4	4.71
Day 14 - 0	12.3	11.5	8.23	5.77	7.65	8.25	10.4	3.49
Day 16 - 0	10.6	13.2	4.81	7.19	8.84	8.66	9.12	5.40
Day 18 - 0	11.4	13.3	5.01	8.25	7.35	7.8 0	9.92	3.15
Day 21 - 0	11.2	14.0	10.9	6.20	9.63	6.45	*	4.05
Day 22 - 0	9.30	10.6	6.14	6.29	10.2	11.2	10.1	*
Day 22 - 1.0	31.8	31.6	19.4	28.4	47.6	20.0	28.6	22.4
Day 22 - 1.5	37.0	32.7	23.9	35.7	37.8	22.6	35.6	21. 8
Day 22 - 2.0	33.3	29.6	20.4	28.8	29.6	25.7	35.5	19.4
Day 22 - 2.5	26.3	28.6	22.1	22.7	25.2	23.9	30.3	13.5
Day 22 - 3.0	24.8	25.6	17.8	18.1	19.3	17.0	24.7	10.7
Day 22 - 4.0	18.2	20.6	14.2	14.4	18.0	14.7	15.9	7.11
Day 22 - 5.0	17.5	17.9	9.79	11.2	12.5	12.2	10.4	4.84
Day 22 - 6.0	11.6	8.78	6.86	7.24	11.3	8.95	8.83	3.25
Day 22 - 7.0	10.1	7.68	5.91	5.26	6.77	7.92	6.99	2.61
Day 22 - 8.0	8.70	7.79	4.11	4.35	4.65	6.52	4.38	1.91
Day 22 - 10	5.80	4.94	2.98	3.12	3.25	5.89	4.38	*
Day 22 - 12	4.98	4.25	2.82	2.37	2.73	3.43	2.85	*
Day 22 - 14	4.25	3.05	2.28	2.56	2.69	3.34	2.15	*
Day 22 - 18	2.34	2.23	1.79	*	*	1.92	*	*
Day 22 - 24	2.50	1.84	1.70	*	*	*	*	*
Day 22 - 28	2.78	*	*-	*	*	*	*	*
Day 22 - 36	1.78	*	*	*	*	*	*	*
Day 22 - 40	*	*	*	*	*	*	*	*
Day 22 - 48	*	*	*	*	*	*	*	*
Day 22 - 52	*	*	*	*	*	*	*	*
Day 22 - 56	*	*	*	*	*	*	*	*
Day 22 - 60	*	*	*	*	*	*	*	*
Day 22 - 66	*	*	*	*	*	*	*	*
Day 22 - 72	*	*	*	*	*	*	*	*
, ,-								

^{*} Below Limit of Quantitation - 1.53 ng/ml; BC - Unacceptable Chromatogram

Subject No.	39	41	42	43	44	46	47	48
					onc.			
Day and Hour				(ng	/ml)			
Day 1 - 0	*	*	*	*	*	*	*	*
Day 1 - 1.0	18.5	8.68	4.41	3.85	14.6	8.79	9.07	10.4
Day 1 - 1.5	25.9	11.4	5.91	5.31	18.0	12.0	14.6	12.2
Day 1 - 2.0	20.9	8.34	6.16	14.1	18.1	10.9	22.9	15.1
Day 1 - 2.5	14.8	9.92	6.99	11.4	15.0	8.72	21.8	16.0
Day 1 - 3.0	9.64	13.8	6.00	9.54	13.2	7.74	17.3	13.9
Day 1 - 4.0	7.69	12.2	4.43	7.12	10.5	5.35	12.3	10.8
Day 1 - 5.0	6.31	8.46	4.14	4.52	8.39	3.18	8.57	7.69
Day 1 - 6.0	3.72	9.38	3.67	2.86	7.12	2.78	6.72	4.90
Day 1 - 7.0	2.97	7.38	3.13	1.97	4.82	2.10	4.07	3.58
Day 1 - 8.0	1.59	5.14	2.48	1.59	3.85	2.08	3.30	2.85
Day 4 - 0	8.52	6.43	9.78	6.47	8.35	5.69	13.1	10.5
Day 7 - 0	6.03	4.98	10.1	6.22	10.5	8.88	15.3	9.05
Day 9 - 0	9.08	6.01	9.00	7.66	5.90	6.69	9.75	8.10
Day 11 - 0	8.25	4.56	11.8	5 .55	5.37	8.06	12.1	5.94
Day 14 - 0	7.62	4.89	9.18	6.60	5.49	6.62	7.78	7.91
Day 16 - 0	8.16	5.26	12.3	7 .95	6.55	6.79	10.0	11.0
Day 18 - 0	7.03	6.55	9.99	6.74	7.92	6.65	11.4	9.37
Day 21 - 0	11.2	3.77	2.53	8.13	4.39	6.07	8.58	6.60
Day 22 - 0	10.4	6.62	12.7	9.85	7.27	5.33	7.30	*
Day 22 - 1.0	23.7	16.9	20.3	13.2	22.1	18.2	4.09	13.8
Day 22 - 1.5	18.9	14.6	25.0	17.0	30.0	17.8	18.4	15.5
Day 22 - 2.0	16.3	11.2	25.2	19.0	28.2	16.1	20.8	13.9
Day 22 - 2.5	14.8	10.5	25.0	19.8	24.5	13.6	19.5	10.9
Day 22 - 3.0	11.8	13.9	24.6	20.8	25.0	13.2	19.7	11.8
Day 22 - 4.0	8.79	12.1	21.6	16.9	18.9	10.5	31.4	9.78
Day 22 - 5.0	6.94	11.4	19.1	15.9	12.8	6.50	18.7	5.75
Day 22 - 6.0	4.23	6.45	15.5	11.5	9.50	5.45	12.1	4.70
Day 22 - 7.0	3.44	4.16	12.4	11.6	6.91	6.00	9.37	5.78
Day 22 - 8.0	2.93	3.39	9.92	9.87	7.94	4.61	7.69	2.73
Day 22 - 10	1.56	2.69	8.11	7.55	5.06	3.69	3.60	5.68
Day 22 - 12	*	*	6.81	6.78	2.82	4.03	3.54	*
Day 22 - 14	*	*	5.33	5.45	*	2.76	2.12	*
Day 22 - 18	*	*	3.45	4.92	1.88	*	*	*
Day 22 - 24	*	*	2.75	5.27	*	*	*	*
Day 22 - 28	*	*	2:37	4.91	*	*	*	*
Day 22 - 36	*	*	1.63	2.26	*	*	*	*
Day 22 - 40	*	*	*	2.50	*	*	*	*
Day 22 - 48	*	*	*	3.18	*	*	*	*
Day 22 - 52	*	*	*	3.21	*	*	*	*
Day 22 - 56	*	*	*	2.89	*	*	*	*
Day 22 - 60	*	*	*	2.05	*	*	*	*
Day 22 - 66	*	*	*	1.92	*	*	*	*
Day 22 - 72	*	*	*	1.67	*	*	*	*

^{*} Below Limit of Quantitation - 1.53 ng/ml; BC - Unacceptable Chromatogram

Subject No.	49	52	53	54	55	57	58	59
					onc.			
Day and Hour	L			(ng	/ml)			
Day 1 - 0	*	*	*	*	*	*	*	*
Day 1 - 1.0	8.34	17.3	6.96	15.3	16.6	6.72	8.00	22.0
Day 1 - 1.5	10.5	23.8	6.55	18.8	15.6	13.4	15.2	21.8
Day 1 - 2.0	13.8	25.0	10.3	16.9	12.6	18.9	18.2	19.6
Day 1 - 2.5	19.8	23.7	13.0	13.1	10.7	20.3	20.6	1 <i>7</i> .1
Day 1 - 3.0	16.5	22.2	11.4	10.6	9.59	18.6	17.1	15.8
Day 1 - 4.0	12.2	15.3	8.12	8.07	7.30	14.1	14.9	13.6
Day 1 - 5.0	7.97	9.78	6.40	6.06	5.75	10.4	8.99	7.68
Day 1 - 6.0	5.55	5.63	3.99	3.34	3.70	6.62	6.21	5.36
Day 1 - 7.0	3.65	4.16	2.51	2.08	2.85	4.30	4.88	3.58
Day 1 - 8.0	3.30	3.48	2.22	1.70	2.56	3.38	3.36	2.88
Day 4 - 0	11.6	9.88	4.47	8.39	8.39	11.9	7.08	9.08
Day 7 - 0	12.2	8.28	4.49	5.87	12.6	8.63	6.65	9.70
Day 9 - 0	9.12	8.76	2.99	6.17	6.64	7.60	6.33	10.6
Day 11 - 0	9.70	10.8	6.82	7.84	5.24	8.17	6.97	11.1
Day 14 - 0	10.2	8.23	4.27	6.10	5.29	4.58	3.20	6.34
Day 16 - 0	8.00	*	4.62	3.64	4.82	5.79	6.42	7.24
Day 18 - 0	8.76	*	4.82	4.17	6.32	5.42	6.19	9.21
Day 21 - 0	10.0	9.88	7.14	7.89	8.17	4.76	5.01	10.4
Day 22 - 0	13.6	8.61	6.57	4.57	8.44	*	3.74	8.61
Day 22 - 1.0	30.8	22.9	14.7	15.6	17.3	12.4	12.9	22.6
Day 22 - 1.5	32.6	25.5	16.2	24.2	17.2	12.8	17.4	21.7
Day 22 - 2.0	32.2	28.0	18.5	23.8	20.1	12.0	17.4	24.6
Day 22 - 2.5	29.2	24 .9	20.1	29.2	19.4	17.1	23.5	19.6
Day 22 - 3.0	28.4	24.1	23.2	28.1	18.2	14.3	21.2	16.5
Day 22 - 4.0	27.5	22.2	19.7	23.6	13.2	8.40	18.8	11.9
Day 22 - 5.0	21.5	17.1	15.1	13.8	11.2	5.36	11.8	7.73
Day 22 - 6.0	14.2	12.4	12.3	9.04	7.72	4.33	8.46	5.25
Day 22 - 7.0	10.5	9.47	8.49	5.97	7.37	3.38	6.22	5.82
Day 22 - 8.0	8.79	7.34	7.29	5.07	6.37	2.43	5.76	3.08
Day 22 - 10	6.14	5.02	4.12	BC 50	3.39	1.80	3.98	2.89
Day 22 - 12	4.51	3.19	2.82	2.79	2.59	2.39 *	*	2.27
Day 22 - 14	2.73	2.09	2.57	1.69	2.57	•	2.69	1.94
Day 22 - 18	- T	- T	1.62 *	- T	2.42	•	2.26 *	*
Day 22 - 24	T	•		*	1.79 *	•	*	*
Day 22 - 28	T 1	•	*~	*	*	- T	· ·	*
Day 22 - 36	-T			*	*	*	· *	*
Day 22 - 40	∓	т ±	*	* *	*	*	 ¥	*
Day 22 - 48	*	T	*	₹	*	*	¥-	*
Day 22 - 52	*	Ψ′ ±	*	* *	*	*	, *	*
Day 22 - 56	*	-∓* ¥-	۰۰ پد	-₹ ¥-	*	*	*	*
Day 22 - 60	¥.	-7′ ⊈-	۰ پ	¥.	*	*	*	*
Day 22 - 66	*	*	*	*	*	*	*	*
Day 22 - 72	7	*	4	-t*	••	•	•	•

^{*} Below Limit of Quantitation - 1.53 ng/ml; BC - Unacceptable Chromatogram

Subject No.	60	62	64	65	66	67	69	70
				Co	onc.			
Day and Hour				(ng	/ml)		· · · · · · · · · · · · · · · · · · ·	
Day 1 - 0	*	*	*	*	*	*	*	*
Day 1 - 1.0	12.0	11.1	9.05	8.49	20.1	5.66	14.6	14.8
Day 1 - 1.5	12.3	11.9	10.1	10.5	23.5	7.51	15.3	22.4
Day 1 - 2.0	11.8	12.1	9.39	9.32	26.6	10.7	9.75	31.3
Day 1 - 2.5	11.3	12.8	9.05	9.24	22.7	9.98	7.55	29.7
Day 1 - 3.0	11.1	11.3	7.17	8.51	19.3	9.12	6.73	25.1
Day 1 - 4.0	10.2	8.66	6.46	6.83	14.3	6.51	4.96	18.0
Day 1 - 5.0	7.54	6.49	3.61	4.66	9.02	4.73	3.79	11.2
Day 1 - 6.0	5.07	4.83	2.71	3.44	6.56	3.12	2.91	8.25
Day 1 - 7.0	3.37	3.32	1.98	2.34	4.54	1.69	2.22	5.23
Day 1 - 8.0	2.85	3.05	*	2.90	3.76	2.05	2.19	4.11
Day 1 - 0.0 Day 4 - 0	9.44	10.4	3.02	2.60	*	7.54	5.48	7.41
Day 7 - 0	7.22	4.42	2.63	6.35	10.4	3.61	3.06	6.18
Day 7 - 0 Day 9 - 0	7.89	5.10	2.82	7.32	6.02	6.33	3.49	7.65
Day 11 - 0	10.1	4.97	4.33	8.43	11.0	2.47	6.48	7. 03
Day 14 - 0	9.93	6.43	3.10	7.92	10.9	6.99	3.69	6.25
Day 14 - 0 Day 16 - 0	9.55	2.10	3.25	6.55	11.5	*	2.63	6.77
Day 18 - 0	10.5	2.38	4.20	2.27	11.2	1.58	5.20	6.97
Day 21 - 0	6.91	8.12	3.10	2. 27	9.09	5.44	3.84	4.74
Day 21 - 0 Day 22 - 0	8.25	5.15	3.30	8.05	14.9	*	6.74	7.95
Day 22 - 0 Day 22 - 1.0	16.4	12.8	12.7	10.2	36.6	10.5	15.3	24.6
Day 22 - 1.5	20.5	14.9	14.6	16.2	42.5	13.9	19.9	31.9
Day 22 - 1.5 Day 22 - 2.0	33.2	15.9	13.3	18.6	43.5	16.6	14.5	42.0
Day 22 - 2.0 Day 22 - 2.5	18.5	18.4	12.4	23.4	43.9	18.3	11.2	30.2
Day 22 - 2.3 Day 22 - 3.0	20.2	19.3	9.80	20.0	47.1	15.8	9.56	24.4
Day 22 - 3.0 Day 22 - 4.0	14.3	13.5	7.74	13.8	33.2	11.3	8.64	18.5
Day 22 - 4.0 Day 22 - 5.0	10.9	7.87	4.99	12.6	24.5	7.01	5.41	12.5
Day 22 - 6.0	7.35	6.80	3.51	8.61	15.6	5.21	3.81	10.2
Day 22 - 0.0 Day 22 - 7.0	6.57	5.27	2.99	6.15	13.0	3.33	3.43	7.41
•	7.79	3.70	2.69	5.67	9.57	3.46	3.46	5.53
Day 22 - 8.0 Day 22 - 10	5.92	3.22	1.90	2.86	6.17	2.32	1.74	7.56
Day 22 - 10 Day 22 - 12	5.57	2.33	1.60	3.53	4.40	2.11	*	3.46
	3.62	1.59	1.00 *	3.33 *	2.95	¥.11	*	3.33
Day 22 - 14	3.33	1.39 *	*	2.16	1.92	*	*	2.43
Day 22 - 18 Day 22 - 24	2.92	*	*	2.10 *	1.72 *	*	*	*
	2.92 2.90	*	*_	*	*	*	*	*
Day 22 - 28	2.90 *	*	*	*	*	*	*	*
Day 22 - 36	*	*	*	NS	*	*	*	*
Day 22 - 40	*	*	*	1115	*	*	*	*
Day 22 - 48	*	*	*	*	*	*	*	*
Day 22 - 52	*	*	*	*	*	*	*	*
Day 22 - 56	*	*	*	*	*	*	*	*
Day 22 - 60	*	*	*	*	*	*	*	*
Day 22 - 66	*	*	*	*	*	*	*	*
Day 22 - 72	•	•		•	,			

^{*} Below Limit of Quantitation - 1.53 ng/ml; NS - No Sample

Subject No.	72	74	75	76	79	80	82	83
					onc.			
Day and Hour	l			(ng	/ml)			
Day 1 - 0	*	*	*	*	*	*	*	*
Day 1 - 1.0	20.1	12.0	3.18	10.2	14.9	4.56	17.7	12.3
Day 1 - 1.5	18.3	11.7	6.21	14.2	17.4	5.14	17.1	22.8
Day 1 - 2.0	17.8	10.4	6.25	19.7	19.3	8.80	26.6	26.8
Day 1 - 2.5	20.5	8.60	8.88	23.1	22.1	12.3	20.1	45.5
Day 1 - 3.0	17.4	7.17	18.8	11.4	24.7	10.4	15.1	49.4
Day 1 - 4.0	16.4	7.40	8.93	16.7	21.6	6.73	11.4	26.9
Day 1 - 5.0	12.8	3.28	4.68	11.6	16.8	4.30	6.93	18.5
Day 1 - 6.0	9.45	2.48	3.02	7. 87	12.1	3.04	4.20	10.4
Day 1 - 7.0	*	1.63	2.45	5.10	9.01	2.63	3.19	7.95
Day 1 - 8.0	5.31	2.64	1.87	3.81	7.11	1.83	2.99	6.13
Day 4 - 0	10.1	7.85	5.39	9.72	10.8	5.82	5.52	10.1
Day 7 - 0	9.25	8.25	6.42	8.01	9.69	3.44	8.83	10.7
Day 9 - 0	12.1	7.59	1.82	9.94	10.5	8.17	6.83	14.2
Day 11 - 0	12.6	6.28	9.65	9 .94	12.0	7.77	4.99	11.6
Day 14 - 0	10.8	5.67	1.73	7. 03	12.3	7.26	4.46	15.6
Day 16 - 0	12.0	7.19	5.67	12. 6	12.8	8.59	8.57	23.5
Day 18 - 0	8.30	7.19	3.31	8.78	14.8	4.81	5.08	13.9
Day 21 - 0	8.33	5.34	4.91	10.4	11.1	2.90	6.96	7.14
Day 22 - 0	10.5	11.0	6.68	8.96	16.3	6.76	7.90	11.3
Day 22 - 1.0	23.4	26.1	10.2	28.5	22.0	9.84	22.7	19.9
Day 22 - 1.5	29.2	27.1	11.9	38.3	15.9	4.41	25.4	34.2
Day 22 - 2.0	31.9	22.4	13.0	42.1	30.9	6.86	21.6	55.1
Day 22 - 2.5	29.5	17.6	11.7	30 .6	29.3	7.16	17.7	41.1
Day 22 - 3.0	23.8	13.7	11.6	26.7	28.1	13.7	39.9	15.3
Day 22 - 4.0	18.7	14.0	9.77	23.5	36.6	10.4	13.1	30.2
Day 22 - 5.0	14.6	10.8	6.81	16 .0	29.1	8.47	9.98	21.2
Day 22 - 6.0	12.5	7.26	4.25	11.5	13.2	5.62	5.00	15.6
Day 22 - 7.0	10.3	6.07	4.10	9.70	9.58	4.11	5.75	12.6
Day 22 - 8.0	7.87	6.35	4.04	6.96	10.5	3.08	4.95	9.56
Day 22 - 10	7.56	4.12	3.26	4.32	5.15	2.19	3.87	6.84
Day 22 - 12	3.46	3.26	2.41	2.37	6.61	*	*	4.20
Day 22 - 14	3.33	1.64	2.63	2.07	4.78	*	*	2.83
Day 22 - 18	2.43	*	*	*	2.80	*	*	2.48
Day 22 - 24	*	*	*	*	*	*	*	*
Day 22 - 28	*	*	*-	*	*	*	*	*
Day 22 - 36	*	*	*	*	*	*	*	*
Day 22 - 40	*	*	*	*	*	*	*	*
Day 22 - 48	*	*	*	*	*	*	*	*
Day 22 - 52	*	*	*	*	*	*	*	*
Day 22 - 56	*	*	*	*	*	*	*	*
Day 22 - 60	*	*	*	*	*	*	*	*
Day 22 - 66	*	*	*	*	*	*	*	*
Day 22 - 72	*	*	*	*	*	*	*	*

^{*} Below Limit of Quantitation - 1.53 ng/ml; BC - Unacceptable Chromatogram

Subject No.	84	86	88	90	
				Conc.	
Day and Hour				(ng/ml)	
Day 1 - 0	*	*	*	*	
Day 1 - 1.0	18.5	20.2	13.8	14.5	
Day 1 - 1.5	19.6	28.4	16.6	27.6	
Day 1 - 2.0	13.6	21.1	18.5	13.2	
Day 1 - 2.5	11.2	15.9	18.9	12.3	
Day 1 - 3.0	11.4	15.5	16.9	10.2	
Day 1 - 4.0	7.24	*	15.8	7.37	
Day 1 - 5.0	5.42	6.22	15.4	4.81	
Day 1 - 6.0	4.01	*	10.4	3.79	
Day 1 - 7.0	3.09	3.84	7.13	2.36	
Day 1 - 8.0	2.24	2.65	3.49	2.06	
Day 4 - 0	6.22	10.0	25.8	6.17	
Day 7 - 0	4.81	*	16.5	9.84	
Day 9 - 0	5.51	8.02	21.3	12.2	
Day 11 - 0	7.27	8.56	23.2	8.00	
Day 14 - 0	6.54	9.50	17.3	12.5	
Day 16 - 0	*	9.23	19.5	9.16	
Day 18 - 0	8.38	7.33	17.6	6.49	
Day 21 - 0	7.55	8.68	16.3	6.33	
Day 22 - 0	9.26	9.33	17.2	8.32	
Day 22 - 1.0	26.9	28.1	38.7	29.9	
Day 22 - 1.5	26.5	*	40.1	16.9	
Day 22 - 2.0	22.5	37.5	43.8	20.8	
Day 22 - 2.5	18.3	33.3	48.0	17.5	
Day 22 - 3.0	15.7	31.2	39.8	16.1	
Day 22 - 4.0	12.8	21.9	31.1	10.9	
Day 22 - 5.0	9.99	17.9	22.8	9.30	
Day 22 - 6.0	7.65	12.9	17.4	7.73	
Day 22 - 7.0	6.21	9.60	13.1	5.41	
Day 22 - 8.0	4.95	7.55	10.4	4.09	
Day 22 - 10	3.41	6.22	8.12	3.06	
Day 22 - 12	2.81	4.10	4.27	2.01	
Day 22 - 14	2.53	3.71	4.52	2.28	
Day 22 - 18	2.03	*	3.21	*	
Day 22 - 24	*	*	2.28	*	
Day 22 - 28	*	*	1:96	*	
Day 22 - 36	*	*	*	*	
Day 22 - 40	*	*	*	*	
Day 22 - 48	*	*	*	*	
Day 22 - 52	*	*	*	*	
Day 22 - 56	*	*	*	*	
Day 22 - 60	*	. *	*	*	
Day 22 - 66	*	*	*	*	
Day 22 - 72	*	*	*	*	

^{*} Below Limit of Quantitation - 1.53 ng/ml; BC - Unacceptable Chromatogram

ANALYTICAL RESULTS WR 238605 IN HUMAN PLASMA Analytical Report Wr5/P 94-7

Subject No.	1	3	5	7	8	9	10	11	12	
Day and Hour	Conc. (ng/ml)									
1-0	*	*	*	*	*	NR	*	*	*	
1- 2	27.6	25.2	44.2	13.3	12.7	NR	50.0	30.6	26.3	
1- 4	65.2	70.7	85.4	44.4	34.6	NR	91.4	76.6	71.9	
	67.6	78.9	111	60.0	87.6	NR	89.3	86.8	42.0	
1-6	76.9	93.4	107	84.3	124	NR	9 7. 9	77.4	84.7	
1-8										
1-12	78.8	90.1	122	73.8	138	NR	116	94.5	67.0	
1-16	85.9	88.6	113	60.1	71.6	NR	116	69.1	58.2	
1-24	92.5	114	115	75. 5	141	NR	85.7	91.6	65.5	
2-0	67.7	65.9	55.3	57.3	51.2	NR	80.8	73.7	50.1	
3-0	141	162	111	132	123	NR	140	110	71.8	
4- 0	196	207	156	141	138	*	185	193	131	
5- 0	278	222	171	180	248	NR	244	252	166	
6- 0	216	250	26 5	103	216	NR	227	274	147	
7- 0	268	292	248	101	210	NR	366	275	174	
8-0	247	306	22 8	144	260	NR	259	259	145	
9-0	276	295	262	172	222	NR	334	191	152	
10-0	247	318	222	125	245	NR	355	2 69	121	
10-2	277	325	282	2 65	266	NR	428	203	171	
10-4	399	579	385	239	272	NR	487	186	215	
10-6	435	461	397	554	285	NR	655	170	245	
10-8	397	487	313	533	310	*	552	162	300	
10-12	423	488	31 9	407	343	NR	721	144	228	
10-16	377	377	223	226	305	NR	684	157	204	
10-24	477	493	37 3	541	302	NR	39 9	219	210	
12-0	189	247	197	186	157	NR	220	96.6	138	
14- 0	90.6	160	109	102	69.9	NR	161	39.8	65.4	
16-0	51.6	103	54.3	61.9	42.6	*	90.2	34.5	32.4	
18-0	25.3	49.0	25.9	35.8	20.2	NR	37.5	16.2	13.4	
20-0	20.1	37.7	17.1	21.2	NS	NR	34.6	9.60	8.20	

^{*} Below Lower Limit of Quantitation - 1.00 ng/ml; NS - No Sample; NR - Not Run

ANALYTICAL RESULTS WR 238605 IN HUMAN PLASMA Analytical Report Wr5/P 94-7

Subject No.	13	16	18	19	20	21	22	24	25		
Day and		Conc. (ng/ml)									
Hour	*	*	*	*	*	<u>и)</u> *	*	*	*		
1-0											
1-2	49.9	42.7	32.8	72.1	62.6	50.3	49.9	31.0	43.9		
1-4	144	179	132	273	144	187	205	133	127		
1-6	157	158	141	27 3	174	236	196	140	143		
1-8	347	172	130	277	198	290	232	146	141		
1-12	353	1 7 5	191	322	185	289	286	153	12 9		
1-16	238	177	174	180	165	274	193	123	125		
1-24	198	*	192	267	213	226	178	119	141		
2-0	149	111	123	132	168	162	111	116	92.2		
3-0	329	153	196	331	262	260	195	177	149		
4- 0	282	230	280	292	240	344	305	204	237		
5-0	2 90	67.9	24 9	404	283	305	320	294	325		
6-0	311	310	247	NS	42 6	335	311	324	427		
7- 0	319	344	331	NS	357	292	348	407	395		
8-0	2 96	338	395	NS	459	333	284	389	434		
9-0	440	434	267	NS	4 60	427	382	496	426		
10-0	603	335	389	NS	421	382	438	411	607		
10-2	603	552	351	NS	418	407	487	397	593		
10-4	813	673	683	NS	547	358	689	489	719		
10-6	975	7 05	722	NS	492	582	667	561	830		
10-8	903	722	500	NS	643	559	610	603	914		
10-12	1060	557	611	NS	567	595	1010	507	826		
10-16	1110	505	420	NS	407	537	746	662	808		
10-24	727	619	535	NS	661	341	517	512	42 5		
12-0	824	351	329	NS	355	377	*	335	463		
14-0	446	183	259	NS	403	215	221	201	307		
16-0	507	89.4	146	NS	237	156	126	233	254		
18-0	562	40.0	88.3	NS	167	85.3	88.8	103	182		
20-0	304	19.7	56.6	NS	89.4	68.3	80.6	68.9	132		

^{*} Below Lower Limit of Quantitation - 1.00 ng/ml; NS - No Sample; NR - Not Run

ANALYTICAL RESULTS WR 238605 IN HUMAN PLASMA Analytical Report Wr5/P 94-7

Subject No.	26	27	29	30	31	32	33	34	36
Day and Hour				,	Conc (ng/m				
1- 0	*	*	*	*	*	*	*	*	*
	*	77.2	12.7	98.2	129	*	86.9	88.4	29.2
1-2	*			295	177	*	163	200	52.7
1-4	*	257	72.7			*	249	223	104
1-6	*	325	121	338	141	*			
1-8	*	393	157	336	115	*	218	210	83.5
1-12		502	178	332	128		270	184	77 .2
1-16	*	423	184	368	127	*	304	172	74 .9
1-24	*	341	193	311	140	*	247	199	95.8
2- 0	*	293	125	224	92.8	*	199	156	94.3
3-0	195	360	360	170	170	*	341	414	180
4-0	359	379	287	66.5	254	*	357	440	302
5-0	630	398	375	50.2	334	*	254	326	340
6- 0	476	495	407	42.0	333	*	482	562	554
7- 0	643	472	414	25.7	398	*	47 0	414	433
8-0	<i>7</i> 05	<i>7</i> 77	456	21.7	404	*	660	437	531
9-0	737	461	544	15.2	413	NR	595	533	572
10-0	526	NS	BC@	13.3	310	NR	454	387	538
10-2	602	NS	451	15.3	437	NR	502	417	501
10-4	848	NS	549	20.3	506	NR	628	527	648
10-6	965	NS	739	21.4	412	NR	705	453	742
10-8	1030	NS	74 1	21.8	498	NR	759	498	637
10-12	894	NS	794	20.7	493	NR	668	436	592
10-16	1080	NS	762	18.7	4 80	NR	620	446	46 5
10-24	945	NS	584	16.0	47 9	NR	497	460	44 5
12-0	518	NS	285	8.94	293	NR	444	301	547
14-0	600	NS	365	5.48	224	NR	541	NS	24 9
16-0	1470	NS	353	3.15	189	NR	322	213	167
18-0	881	NS	260	1.46	149	NR	256	151	110
20-0	677	NS	171	BC##	53.7	NR	215	100	63.2

^{*} Below Lower Limit of Quantitation - 1.00 ng/ml; NS - No Sample; NR - Not Run BC@ repeat not performed; BC# insufficient sample for repeat analysis

ANALYTICAL RESULTS WR 238605 IN RAT PLASMA Analytical Report Wr5/P 95-1

Subject No.	421	422	423	424	425
Day		Co	ncentration (ng/	ml)	
0	*	*	*	*	*
0 1	*	*	*	*	*
21	*	*	*	*	*
49	*	*	*	*	*
126	*	*	*	*	*
175	*	*	*	*	*
Subject No.	446	447	448	449	4 50
Day		Co	ncentration (ng/	ml)	
0	*	*	*	*	*
0	*	*	*	*	*
1	•	·	*	*	*
21	¥	*	*	* *	*
49	· ·	* •	4 4	* *	•
126	*	- -		•	· ·
175	7	•	*	•	7
Subject No.	471	472	473	474	475
Day		Co	ncentration (ng/	ml)	
0	*	*	*	*	*
1	5.26	5.68	9.09	11.5	*
21	20.2	13.9	39.3	28.9	28. 5
49	38.9	30.4	74.4	45.8	60.0
126	46.6	24.6	112	61.4	54.6
1 7 5	51.0	25.9	157	80.4	60.5
Subject No.	496	497	498	499	500
	490				300
Day	*	<u>*</u>	ncentration (ng/	*	*
0	*				
1		4.53	3.15	3.39	4.23
21	37.0	6.76	19.0	18.8	15.3
49	63.5	48.4	35.6	44.9	29. 0
126	94.0	65.7	60.1	81.9	49.0
1 7 5	120	89.5	88.8	97. 9	49.9

^{*} Below Lower Limit of Quantitation - 2.00 ng/ml

ANALYTICAL RESULTS WR 238605 IN RAT PLASMA Analytical Report Wr5/P 95-1

Subject No.	521	522	523	524	525
Day		Co	oncentration (ng	/ml)	
0	*	*	*	*	*
1	21.7	23.7	32.6	26.1	33.7
21	73.4	111	99.0	87.2	83.3
49	110	193	146	161	182
126	228	365	380	314	312
175	247	312	317	392	352
Subject No.	546	547	548	549	550
Day		C	oncentration (ng,	/ml)	
0	*	*	*	*	*
1	26.5	31.4	31.9	24.9	34.3
21	107	125	169	94.7	161
49	226	157	180	140	188
126	584	386	47 5	22 6	341
175	646	472	550	282	537
Subject No.	571	572	573	574	5 7 5
Day			oncentration (ng	/ml)	
0	*	*	*	*	*
1	<i>7</i> 0.6	163	180	138	161
21	696	396	535	650	67 1
49	591	396	1050	692	1130
126	1320	1510	1610	1110	1610
1 7 5	1350	1030	1350	1400	1410
Subject No.	596	597	598	599	600
Day			oncentration (ng	/ml)	
0	*	*	*	*	*
1	122	133	98.3	157	119
21	608	553	499	<i>7</i> 55	620
49	802	<i>7</i> 54	855	940	48 9
126	1590	1030	1260	1470	125 0
175	2770	1240	1230	1740	1630

^{*} Below Lower Limit of Quantitation - 2.00 ng/ml

WR 238605 Plasma data.final

Study No. WR5/BP 95-2

Subject	1	2		3	5 6
Time (hr)				!	<u>'</u>
_ 0 *		*	•	*	†
0.5 *		*	*	*	5.38
1	15.8	*	3.0	08!*	7.13
2	44.5	18.6	35	.9 8.2	91 87.1
4	116	130	12	24 11	5: 274
88	278	230	31	13! 31	5 394
12	308	237	29	95: 50	00 440
16	279	267	25	52: 36	367
24	223	190	22	25 33	33 5
36	654	486	60	08 105	781
48	568	511	50	05 83	719
72.	586	323	36	66 69	630
120	313	266	2	58: 52	22 437
216	476	382	32	29! 64	12: 582
360	283	253	3(03: 39	364
528	309	349	3	15 27	72: 328
696	438	299	4	04: 32	23: 274
720	370	366	3	69 NS	'NS
864	236	425	3:	29 34	49 274
1032	226	187	3	07: 20	07 202
1200	272	153	2	00 14	42 . 19 9
1536	207	81.3	1	21: 97	'.4 130
2424	60.2	24.9	61	1.61 21	.1: 31.2

WR 238605 Plasma data.final

Study No. WR5/BP 95-2

Subject	7	8		9	11	12
Time (hr)						
0 *	•		*	*	*	
0.5 *	*		*		2!*	
1 *		2.14	*		12	2.05
2	62.1	35.3		22.3	68.2	59.2
4	218	157		137	209	121
8	336	436		258	395	218
12.	345	397		328	353:	210
16	366	412		305	368	184
24:	275	389		340	305	165
36	687	822	i	642.	703	390
48	597	793		678	612:	400
72:	571	596		496	375	351
120	379	370		389	373	223
216	404	484		403	494	351
360	309	639		298	340	261
528	317	320		383	302	244
696	240	277		339	388	333
720 NS	NS			296	523	289
864	175	236	i	337	255	317
1032	119	230		283	376	280
1200	91.5	125		117	317	188
1536	43.7	70.8		80.4	157	156
2424	7.45	17.5		21.8	40.9	43.2

WR 238605

blood data.final

Study No. WR5/BP 95-2

Subject	1	2	31	5:	6
Time (hr)				!	
0 *		*	* 1	*	
0.5 *		*	* '1	*	
1	20.7	*	6.01		5.68
2	85.2	48.1	66.3	18.5	175
4	318	267	217	214	412
8	718	419	430	506	650
12	770	448	465	740:	735
16:	764	421	409	683	622
24	653	370	378	592	611
36	1230	761	912:	1470	1270
48	1430	802	725.	1270	1120
72:	1380	665	652:	1120:	983
192	895	470	460	827	716
216	1140	682	632	991	997
360	961	431	466	636	606
528	861	535	478	601	687
696	383	414	426	388	343
720	563	587	527	NS N	JS.
864	496	437	392	329	237
1032	375	296	314	237	213
1200	331	171	247	183	178
1536	230	153	186	106	87
2424	90.2	41.3	59.5	25	32.3

WR 238605 blood data.final Study No. WR5/BP 95-2

Subject	71	8	9 :	11!	12
Time (hr)					
0 *		*	* :	. *	
0.5 *		*	*	4.34:*	
1 *		3.41	*	29.1	5.18
2	96.7	60.5	37.3	141	127
4	348	199	199	298	263
8	530	537	388	545	384
12:	547	612	449	583	413
16	545	663	436	618	390
24	448	606	462	588	387
36	1010	1230	839	1400	855
48	870	1250	891	1110	779
72	835	880	671	820	711
192	531	582	469	711	477
216	698	759	632	850	619
360	441	802	431	508	464
528	458	478	430	651	475
696	283	241	401	442	384
720 NS		NS	443	619	497
864	178	165	294	479	314
1032	145	143	198	291	273
1200	93.5	120	85.9	279:	195
1536	41.9	74.2	64.6	153	145
2424	9.71	22.1	17.9	43.1	57.1

95-4 Final Data				Halofantrine (ng/ml)	(ng/ml)					2/10/97
H Neu	Hour	-	2	3	4	2		9	7	8
!		-: *]! *): *	*			*	*	•
	, ıc	*	*	•	*	15.1		•	2.97	•
, , , , , , , , , , , , , , , , , , ,		1.66	*	*	8.39	30.4		*	19.5	29.3
	٠ ۵	14.2	*	*	40.7	43.2		*	10.9	71.9
	8		2.87	*	104	36.3		•	13.1	122
· •	4	δ.	14.0	· #	85.2	26.8	!	*	32.5	159
:	9	30.5	58.9	*	153	64.3		*	20.7	346
	. 80	9	64.7	4	99.1	29.8	:	*	23.0	193
-	10	40.5	8.09		35.7	59.2		•	22.9	114
-	12	33.0	46.2	*	54.0	25.4		*	15.7	122
2	0	11.1	22.7	4	25.0	12.3		· • !	31.5	41.9
C	0	29.0	14.5	*	47.0	26.4			25.6	55.5
4	0	43.1	41.5		156	23.4			61.0	58.7
4	. 21	48.4	77.8		831	77.7		1	356	128
4	4	92.9	163	*	785	104	:	* *	866	236
4	9	0	135	4 4	754	145		* -	471	229
7	8		103	***	685	138		•	310	220
4	12	89.8	85.9	•	544	(10) 108		•	209	170
22	-0		53.3	*	256	45.8		*	73.3	83.8
ο: Φ	0	_	61.1	# :	219	36.5			127	90.9
7	0	99.0	61.5	4	155	46.3		* :	128	140
7	. 7	138	197	•	200	75.9		* 1	135	181
2	. 4	N	67.7	4	375	101		•	316	230
	9	227	124	•	357	139		•	235	272
2	. &	268	157	*	304	141			283	270
2	12	Ö	9.06		227	29.0		*	191	177
8	0	121	58.8	# 1	160	42.5	-	*	107	105
∷ Ø	0	157	103	*	125	8.09		*	112	185
10	0	116	117	*	154	65.6		+	98.6	133
	0	103	142	*	139	75.8		•	115	<u>S</u> !
122	0		141	*	146	72.4		*	153	<u>s</u>
13	0	123	165	•	141	60.8			173	2 9
41	0	109	115	*	196	98.2			119	2 !
41	2	122	189	•	229	174		*	135	2 9
14	4	*	207	116	460	218			192	2 2
4-	9	162	298	*	504				232	2 9
14	-8	177	277	*	427	127	~=-		243	2 .
41	12	163	199	#	268	121		*	270	2

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

2/10/97	8	SN	SN	SN	92	SZ	SZ	SZ	SN	<u>9</u>	2	SZ:	SZ	<u>S</u>	SN	SN	<u>S</u>	2	S	<u>S</u>	SZ SZ	9	2	<u>S</u>	SZ	9	<u>9</u>	<u>S</u>	9	<u>S</u>	SN	SN	SZ	SN	<u>S</u>	SN	SN	SZ	SN
	7	205	229	198	178	142	166	281	319	291	433	203	198	107	176	180	181	(32) 86.6	134	157	128	141	163	131	160	232	204	169	165	198	119	2	,	(49) 42.4	51.9	50.5	89.9	32.3	19.6
	9	*	*	*	*	*	• •	*	4	# 1	* 1	* 1	*	* .	*	*	* .	*	32.0	6.74	2.76	2.33	2.54	2.31	2.71	2.90	2.84	3.11	2.98	2.93	2.73	1.92	1.49	1.37	1.08	•	•	*	٣
	5	86.5	83.3	83.1	107	95.0	163	92.8	118	82.9	284	219	189	143	131	9	SS	SZ	2	S	SZ	92.	2	SZ	9	SZ	SZ.	SZ Z	SZ	<u>S</u>	SN	SY	SN	SN	SZ	25.1	SZ	NS.	NS
(lm/gn)	4	176	141	170	146	136	156	157	163	463	472	397	390	175	153	138	113	SZ	116	(37)101	SN	SN	9	S	SN	<u>S</u>	92	<u>S</u>	SZ	8	S	SY	SZ	SN	SY	SN	SZ	SN	SN
Halofantrine (ng/ml)	3	*	*	•	*	*	*	*	*	*	*	• :	*	•	*	*	* .	+	*	*	*	*		*	*	*	*	*	*	•	*	*	4	*	*	*	*	SZ	*
	2	114	88.4	130	216	234	229	166	348	596	724	637	478	242	220	393	199	_	(35) 165	\$2	S	S	SZ	S	SZ	SN	S	SY	S	SN	SN	SZ	<u>S</u> 2	22	2	2	SN	S	SN
	1	135		90.7	~	165	167	139	137	206	316	180	236	133	131	9	173	2		123	3	2	8		6	335	4	7	6	323	4	148					74.8		က
	Hour	0	0	0	0	0	0	0	8	4	9	8	12	0	0	0	0		0	0	0	0.5	_	2	က	4	9	8	10	12	0	0	0	0	0	0	0	0	0
95-4 Final Data	Dav	15	16	17	8		20		: 2	21	21.	21	. (2)	2	25	29	32	33	36	36	42	42	42	42	42	42	42	42	42	42		44	45	48		54	5.2	72	180

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

95-4 Final Data				Halofantrine (I	(lm/gn)				2/10/97
Dav	Hour	6	10	11	12	13	14	15	16
<u></u>	0	#	*	1.70	*	*	*	*	
· · ·	0.5	*	*	13.3	*	*	•	2.72	10.3
		6.84	1.89	40.0	•	* *	6.36	17.6	12.2
	2	29.9	59.0	79.5	*	*	20.2	65.3	23.0
•	i m	164	171	83.3	*	*	6.1.9	80.1	52.5
	4	340	234	152	*	1 *	75.2	173	46.0
-	9	328	326	92.5	. #	4 1	82.0	116	51.3
	8	238	162	99.9	* 1	* :	6.99	102	33.3
	10	158	147	81.0	* :	• :	74.2	74.7	24.0
	12	99.3	121	64.5	+	1	58.9	57.8	23.1
2	0	44.1	54.9	23.9	*	*	27.6	37.9	15.5
် :	0	53.1	36.3	166	* '	*	23.4	108	25.3
. 4	0	100	105	104	# -	4 1	29.0	90.8	31.9
4	2	109	81.1	147	•	* ·	66.2	153	56.5
. 4	4	293	209	331	*	4 1	97.3	154	119
· •	9	241	176	234	*	*	108	175	126
. 4	80	190	117	238	* 1	* .	71.3	134	71.1
4	12	118	94.1	173	* :	*	65.0	109	54.4
. 22	0	58.7	58.2	76.3	*	*	49.0	98.0	41.9
9	0	67.4	50.3	116	*	* 1	75.0	78.6	55.7
	0	69.3	44.0	0.92	*	* .	53.1	81.2	52.6
2	7	88.2	85.3	116	•	# +	77.1	141	0 0
7	4	206	150	235	•	* (120	/ / 7	0 0
7	9	248	149	208	* 1	•	120	210	1 0
	80	228	138	199	•	* • •	111	0 0	121
7	12	115	80.5	132	<u> </u>		0 0	00.0	0 0
80	0	83.3	72.2	78.0		• •	0.00	0 5.0 4. r.	90.9
6	0	130	1 / 4	000	•	*		124	60.5
10	0	88.9	116	18.4	•	*	5 5	0	73.2
=	0	106	120	70.4	•	*	7 U		8.69
12	0		133	9.68		• •	000) LI	7 0.0
13	0	•	111	104	<u> </u>	. •	120	100	70.5
14	0	83.6	132	78.9	•		158	100	20.0
14	2	163	384	197	*	.	196	270	90.4
14	4		882	629	*	*	284	2/3	171
14	9	382	722	856	*	*	298	323,	
4-	8		962	771	•	*	266	659	91.1
14	12	222	658	549	*	•	209	298	90.2

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

95-4 Final Data	ata			Halofantrine (ng/ml)	ıg/ml)					2/10/9	7
, CO	I	σ	10		12	13		14	15	16	
ğ. -			241	180	. *	*		138	136	81.0	
· +	0 0	103	161	242	*	*		168	118	77.5	
	•••	121	23.8	1 4 1	*	*		158	191	92.0	
-: *		157	202	137	• #	*		160	163	117	
- +		141	240	167	*			150	117	107	
- 0	0:0	-	195	145				155	110	223	
		147	144	134	• •		:	134	76.2	98.3	
u i c		162	575	137	1	*		268	142	157	
1: 0	1 4	278	951	430	*		:	255	318	226	
1: 0		. 12	687	438	*	*		278	311	243	
10		٠.	715	258	. 4	*		214	245	187	
:	:		495	199	. •	•	. !	175	197	160	_
1.0	••	· LC	223	131	*	10.2	!	158	93.9	133	
	:	ني نا	230	117	• #	+		172	78.3	118	
		<u> </u>	242	156	<u>;</u> #	;		352	179	118	
1 6			345	144	i + i - i - · · · · · · · · · · · · · · · ·	*	† •	401	159	212	
o: e		2	92	2	2	\$		2	2	\$2	
) . č			317	2	*			379	138	173	
7 6		; <u> </u>	126	161	*	*		452	168	250	
	0.0		180	150	- 4	. *		2	182	113	
ř		601	184	143	*	**		2	200	147	
:	; ;		137	137	*	#		2	260	138	
	- 0		75.6	294	*	•		2	246	153	
	:		1210	386	· *	*		2	317	405	
	1.0	0.00	022	329	*		,	2	400	391	
7	J: C		678	354	*	• •		2	545	352	
7			516	298	•	•		2	277	234	_
7	•		657	246	*	*		SZ	257	237	
7 3			416	188	*	*		2	332	193	
7	1 0	108	273	109	•	*		<u>S</u>	173	175	
			167	82.2	•	•		SN	150	163	
	2 0	: Z	SZ	87.9	*	•		SZ	116	2	
		3 44	7 00 (07)	y y	•	*		SZ	0.06	2	
	0 0	45.2	102	2	*	*		SZ	64.9	2	
		· ^	813	2	•	*		\$	85.4	2	
ù ô		•	<u> </u>	2	•	•		SZ	40.2		
		; ,	2	<u>S</u> 2	*	*		SZ	46.4	<u>~</u>	
	N C	. "	9	<u>S</u> 2	*	•		SN	9.65	8.08	 1
		• 1									

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

Day	Hour	-	2	8	4	5	9	7	8
_	0			- 4	•	*		•	
-	0.5	*	*	*	*	*	*	*	
-	-	4		• •	*	2.69	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*	2.18
_	2	1.08	**	*	99.9	8.51	*	1.57	10.
Ţ,	က	5.17			25.5	14.8		5.45	44.
-	4	6.72	1.55	•	29.8	9.23		7.72	54.
-	9	12.8	5.20	*	69.1			6.37	.89.
-	8	12.7	7.19		70.9	:		8.29	73.
-	01	20.8	8.09	*	39.4	:		8.27	.99
-	12	17.3	9.29	i 4	47.7	22.2		6.27	80.
7	0	14.8	10.6		48.1	24.2		5.87	55.6
8	0	36.0	8.31	*	93.4	58.8	***	25.1	نم
4	0	56.9	40.5	*	168	57.9	•	59.1	13
4	7	52.5	39.8	*	240	56.5		67.3	16
4	4	83.8	58.2	•	191	80.2		97.8	218
4	9	93.7	45.7	*	268	125		112	18
4	80	74.2	50.4	41	300	122		88.0	200
4	12	106	63.2	#	270	(10) 122		82.8	14
S	0	122	63.4	*	322	125		99.1	18(
9	0	191	71.3	*	272	104	• •	84.6	23
7	0	196	80.8	*	302	145	. •	105	291
7	2	170	118	* :	264	163	• 1	95.8	326
7	4	226	89.1	*	348	209	* 1	168	37
7	9	245	112	*	347	209	*	134	44,
2	80	259	121	*	283	235	•	85.0	42
7	7	217	136	•	229	93.7	•	140	36(
∞:	0	217	109	•	319	151	*	88.2	297
O	0	341	141	*	285	196	•	11	413
10	0	363	182	*	279	194	•	111	200
	0	355	234	*	267	272	*	125	SN
12	0	438	240	•	250	271	•	158	¥
13	0	454	250	*	261	254	*	133	SN
4	0	368	221	*	299	308	•	100	SN
4	CV	294	261	*	295	339	*	101	SZ
14	4	*	304	297	413	357	*	99.5	SN
14	9	411	318	•	352	368	•	127	SN
4	8	401	320	*	360	310	•	170	SN
	-				•				

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

Day	Hour	6	10	-	12	13	14	15	16
-	0	. •	1 4	*	• •	• *	*	*	
-	0.5	*	*	*	*	*	*	*	•
			*	2.86	*	*	*	*	1.56
	7	2.84	4.05	12.4	. *	*	2.51	6.39	9.50
-		10.7	19.1	18.7	. • • • · · · · · · · · · · · · · · · ·	•	12.6	12.9	19.2
-	4	18.5	27.3	32.4	***	! *	20.5	45.8	o
-	9	30.7	53.4	28.6	*	i i i	24.4	25.5	24.5
-	8	31.3	36.6	33.0	i •	• •	21.4	22.6	Ö
:	10	36.2	34.0	39.5	•		31.6		~
	12	25.7	22.1	35.3	, ! 4	*	34.7	29.9	17.3
N	0	20.8	31.8	30.5			29.4	28.1	23.8
en en	0	52.6	34.7	134	*		37.2	68.9	58.4
4	0	75.1	124	149	**	*	58.9	99.3	8.68
4	N	65.5	85.0	123			61.2	118	Ö
14	4	131	97.9	178	*	*	73.9	141	105
4	9	97.1	92.6	167	4	•	91.9	184	127
4	8	117	108	161	*	•	58.0	150	103
4	12	73.4	97.3	142	**	*	81.6	102	102
: 10	0		97.6	107		*	68.5	143	109
9	0		91.3	143	•		121	178	165
	0		68.3	110	*		72.3	183	223
	8		68.6	108	*		121	170	245
7	4	175	94.2	133	: #	# 1	140	262	223
7	9		104	126	*		109	173	289
7		177	105	124	*	*	139	128	195
	12	180	92.2	117	• •	*	117	198	224
60		153	90.9	119			113	162	158
: 67	0	184	139	158	*	· •	151	210	230
0 0	· C	207	158	107	*	•	229	239	243
) +-	0		171	99.5	•	. 4	250	234	236
. 2	0	257	163	112	•	*	303	208	
. 6	0		154	139	•	*	282	243	
4	0	Ŋ	146	102	•	*	361	210	307
4	· CV		192	112	*	+	341	332	296
. 4	1 4	O	က		*	•	350	328	277
4	9	Ŋ	: 10	171	•	•	368	361	242
. 1) · œ	(2)	392	192	*	*	363	0	229
)								

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

95-4 Final Data				-	Halofantrine Metabolite (ng/ml)	abolite (ng/m	(=			2/10/97
770	H		0	10	-	12	13	14		16
Cay		:	269	206	134	*	. *	307		ri Θ
0 4	- •		316	202	169	*	*	297		က
0 1			208	261	168	• •	*	332		e
<u>α</u>			33.0	254	176	*	1 4 2	363		204
<u> </u>) C	332	285	197	•	•	343		43
- 0			303	276	182		•	287		55
) V: C	!		270	249	183		1 4	295		4
1.0	:	2.0	1 m	290	176	*		321		4
1.6		J 🕏	380	323	302	. *		263		en ·
7 6		!	370	336	308	• •	!*	304		4
7.0) · @	419	380	202	. •	1 4	240	319	42
			409	296	225	. *	1 *	271		4
000			358	294	185	• *	*	322		44
1 6): C	380	364	190	•	•	321		5
0:00			379	319	234		(*	394		400
): C			286	315	215	*		413		4
1 60	*		2	92	2	SZ	\$2	2		2
39	•		235	499	2	*		515		c
) : O		0	300	245	254	*	*	603		4
4		C	272	250	286	*		<u>\$</u>		24
42	0		168	380	306	•	•	S 2.		32
4	•		145	188	225			<u>\$</u>		330
1 24	••		208	431	294	*	•	\$2.		2
24			293	444	296	*	4	S		5
4.	•	- 	185	483	276	*	•	SZ		
42		(2)	353	433	287	*	* 1	9 :		က
42	!	6	308	407	281	*	*	\$	~ -	ဇ
42	· -	0	312	370	268	*	•	\$		
42	_	-2	316	419	265	•	•	SZ		32
43	•	· ·	293	439	211	•	•	SZ		34
44	•	:	251	307	189	•	•	<u>8</u>		4
45	•	0	2	SZ	208	*	*	\$2		
48	_		130	(49) 205	SE	•	•	SZ		
	_	. 0	73.3	173	2	*	*	\$2		
			113	104	SZ	•	*	S2 28		
57	_		35.8	SZ	SZ	•		<u>S</u>		
	_		18.3	SZ	SN	*	•	SN	8.41	(76) 27.2
0 8 1			1.03	2	S	*	*	SN		2.22
				70 / 14	20 - QN : (law) = C	of mine.	re in narenthe	sis indicate res	rescheduled day or hou	hour

NS = no sample; * = below assay sensitivity (1.00 ng/ml); NR = not run; numbers in parenthesis indicate rescheduled day or hour

1	2nd Shipment	
·	Group A Sample	
	Gentamicin	Paromomycin
Sample ID	μg/ml	μg/ml
Benson, P.	*	*
Boyd, R.	*	*
Genest, G.	NS	NS
Grant, E.	*	*
Kessenich, J.	*	*
Rowton, E.	*	*
Tomek, D.	*	•
Turiansky, G.	*	*
Ruiz-VanBuren, E.	*	+
Figueroa, L.	*	*
Hudson, T.	*	*
Martin, R.	*	*
Ohrt, C.	*	*
Roth, N.	*	•
Vassell, R.	*	*
Dornak, T.	*	*
Merrill, G.	*	*
Zikry, A.	*	*
	Group B Sample)
	Group B Sample Gentamicin	
Benson, P.	Gentamicin	Paromomycin
Boyd, R.	Gentamicin	Paromomycin
Boyd, R. Genest, G.	Gentamicin μg/ml *	Paromomycin μg/ml
Boyd, R. Genest, G. Grant, E.	Gentamicin μg/ml *	Paromomycin μg/ml
Boyd, R. Genest, G. Grant, E. Kessenich, J.	Gentamicin μg/ml *	Paromomycin μg/ml
Boyd, R. Genest, G. Grant, E.	Gentamicin μg/ml * NS *	Paromomycin μg/ml * NS
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D.	Gentamicin μg/ml * NS *	Paromomycin μg/ml * NS * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G.	Gentamicin μg/ml * NS *	Paromomycin μg/ml * NS * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D.	Gentamicin μg/ml * NS * * * * *	Paromomycin µg/ml * NS * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L.	Gentamicin μg/ml * NS * * * * *	Paromomycin µg/ml * NS * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L. Hudson, T.	Gentamicin μg/ml * NS * * * * *	Paromomycin µg/ml * NS * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L. Hudson, T. Martin, R.	Gentamicin μg/ml * NS * * * * *	Paromomycin µg/ml * NS * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L. Hudson, T. Martin, R. Ohrt, C.	Gentamicin μg/ml * NS * * * * *	Paromomycin µg/ml * NS * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L. Hudson, T. Martin, R. Ohrt, C. Roth, N.	Gentamicin μg/ml * NS * * * * *	Paromomycin µg/ml * NS * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L. Hudson, T. Martin, R. Ohrt, C. Roth, N. Vassell, R.	Gentamicin μg/ml * NS * * * * * * * * * * * * * * * * *	Paromomycin µg/ml * NS * * * * * * * * * * * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L. Hudson, T. Martin, R. Ohrt, C. Roth, N.	Gentamicin μg/ml * NS * * * * * * * * * * * * * * * * *	Paromomycin µg/ml * NS * * * * * * * * * * * * *
Boyd, R. Genest, G. Grant, E. Kessenich, J. Rowton, E. Tomek, D. Turiansky, G. Ruiz-VanBuren, E. Figueroa, L. Hudson, T. Martin, R. Ohrt, C. Roth, N. Vassell, R.	Gentamicin μg/ml * NS * * * * * * * * * * * * * * * * *	Paromomycin µg/ml * NS * * * * * * * * * * * * *